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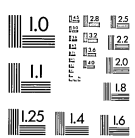

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Thomas A. Edison Papers

A SELECTIVE MICROFILM EDITION

PART IV
(1899–1910)

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Notebook, N-04-11-22

04-11-22

1557

Spoiled in the 33% op. 12 hrs.

Balance [illegible] on —

4423	533	469	532	448	528	533	527
22	590	486	544	437	519		
21	[illegible]	477	537	460	530	542	530
20	[illegible]	474	513	457	533	537	520
19	[illegible]	467	529	487	529	532	521
	609	475	532	454.4	527.5	536	

4423	526	
22		
21	531	5r runs on Endurance
20	526	
19	523	

	61	63	64	5r runs on Endurance	116	117
4421	530	522	519		538	500
20	533	508	515		525	488
19	533	512	517		527	493

4423	472	488	460	458	422	422	407	367
22	454	516	515	505	517	517	517	515

Nov 22 1904 Dens

4419 - Group 5 nickels Reversed Performance

CHARGED in 33% 150 7 volt 15 hours against CP Nickel strip 100 rate, then put in 21% and charge 15 hours 200 rate discharge 100 - use new irons cathoded

Center 92 Edge 100 + 103

4420 Dup of 4419

Center 88 Edge [illegible] 111

4421 " "

Center [illegible] 8 Edge 103 + 103

4422 " "

Center 92 Edge 103 + 107

4423 " "

Center 89 Edge [illegible] + 103

Scotch [illegible] [illegible] 21 [illegible]
[illegible]

4425	500								
24	583	443	514	442	511	515	517	492	
26	583	461	520	442	518	522	517	505	
25	578	443	520	440	514	523	504	517	
24	557	460	530	455	527	532	521	517	
					515	523		512	

4427	517				91	93	44		116	117	
26	520	x	Summary of Indicators		530	500	483	Summary of Indicators	517	483	
25	517	x			543	504	500		522	487	
24	523	x			543	512	497		532	498	

4427 | 452 | 450 | 433 | 400 | 348 | 343 | 310 | 2001

No 7

Nov 22 1904 Dozzl

4424 Group 5 nickels reversed perforations
CHARGED in 21% 15 hours, 100 rate,
Temp 150 fahr — Then charge in 21%
Cold 15 hours, discharg 100, use new
Coulhooted irons —
Center 92 — Edge 101 + 103

4425 Dup of 4424
Center 92 Edge 101 + 103

4426 " "
Center 92 edge 102 + 103

4427 " "
Center 89 edge 101 + 101

4428 " "
center 90 edge 101 + 102

4431	30	478	482	472	408	463	450
4430	39	500	500	478	408	446	468
4429	97	442	446	440			SC
		478	476				

$\frac{1420}{473}$ $\frac{1424}{476}$

Nov 22 1904 Lins

4429 3 cups from Libbs Truck
Soaked 5 days in concentrated
Na Carbonate Potash till green crystals
appeared on outside of cups stuck
thereto. Charge in 21% 15 hours
200 rate discharg 100 rate
Center 2 Edge 96 & 96

4430 Dup of 4429
Center 87 Edge 100 & 103

4431 " "
Center 88 Edge 100 & 101

Sealed 18 hrs. in the 33 o/o
before putting out —

4432	247	249
35	249	263
34	269	299
33	253	309
32	255	290
	2.14	2.14

Nov 22 1904 Dow

4432 Group of 5 reversed perforations containing 3:2 green nickel hydroxide CHARGED in 33%. 15 hours 100 rate 150 Fahr then put in cells with 21% and new cathodes irons and charged 15 hours 200 rate discharge 100
Center 103 Edge 116 & 117

4433 Dup of 4432.
Center 101 Edge 112 & 117

4434 " "
Center 99 Edge 111 & 117

4435 " "
Center 100 Edge 115 & 116

4436 " "
Center 105 Edge 114 & 118

4441	228	248
40	257	282
39	232	246
38	232	282
37	278	302
	Avrge	264

Nov 22 1904 Done

4437 Group 5 M Reversed perforations
3.2 green nickel hydroxide, soaked
in 33% on bottle on hot plate down.
steam 40 hours, then put in 33% 4-
CHARGED against Cp nickel slip
15 hours 100 rate 150 deg fahr.
Then assemble with cathoded irons
and charged 15 hours 200 rate
discha 100
Center 103 Edge 114 + 117

4438 Dup of 4437
Center 103 Edge 117 + 117

4439 " "
Center 102 Edge 114 + 117

4440 " "
Center 101 Edge 112 + 113

4441 " "
Center 101 Edge 113 + 115

Standard [illegible]

Before Polling					
4446	630	464	486	427	372
45	700	527	492	470	442
44	522	388	367	345	320
43	593	484	426	392	382
42	700	527	482	438	422

Nov 22 1904 Lunch

4442 5 Regular pockets from Glen Ridge bound together with fence wire wire bands and connected to a C.P. nickel strip. charged in 33% 150 Amhr 15 hours, 100 rate then put all together in another jar with 21% and charged further against Ni strip 15 hours 200 rate then ~~Take apart then [illegible]~~ ~~jar water [illegible]~~ Take apart & strip. Then ~~assemble~~ ~~each~~ take them apart & put each in a grid but do not press or corrugate them, assemble in Cells with Collinder discharg at 100 rate leave wires between for circulation

4443 Duplicate of 4442

4444 " " "

4445 " "

4446 " "

5 [illegible]

			2550	2358	2471	2306	2571	2583		
2458	2406	2584	2575	2391						

Nov 22 1904 Dorse

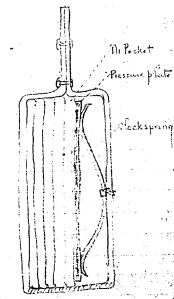
4447 Make a Cage of Regular nickels pressed in the flat die to make them perfectly flat, put 5 in the cage with Clock spring pressure, same with Irons these are to be ~~[illegible]~~ CHARGED in 33% the nickel only, 150 for 100 rate for 15 hours, The irons are to be charged 15 " 200 rate 21½% then both cages are to be put together in 21½% charged 15 hours more at 200 rate, discharged 100 rate

~~4448 Dup of 4447~~

~~4449~~ "

~~4450~~ "

~~4451~~ "



4442	423	422	408
51	446	447	466
53	412	412	393
49	451		447
48	445	1	447

✓ Nov 22 1904 Done

4448. 5 gibbs pockets soaked in water 2 hours after they were charged in big plate. The pockets put in grids not pressed but sides straightened to make contact with grids and given to Edison to soak in 21% sol Iodide of potassium for 24 hours Then put in large quantity water warmed soaked 20 hours, Then put with Colloidal nickel chgd 21% - 15 hours 200 rate, discha 100 -

Center 96 Edge 102 + 105

4449 Dup of 4448
Center 98 Edge 101 + 104

4450 " "
Center 94 Edge 100 + 104

4451 " "
Center 100 Edge 108 + 111

4452 " "
Center 97 Edge 102 + 104

4453	147	276	222
54	164	245	220
55	143	268	220
56	143	233	236
57	143	238	

C0

Nov 25 1904

4453 5 nickels. 2% Electrolyte
Containing 3 grammes Aluminum
in the Tumbler charged in the 100 ft,
Charge 15 hours 200 charge 100
Center 92 Edge [illegible]

4454 Duplicate 4453
Center 95 Edge 103 + 105

4455 " "
Center 94 Edge 100 + 103

4456 " "
Center 92 Edge 102 + 104

4457 " "
Center 87 Edge 99 + 102

Switch he has in the 33 solo
before [illegible] are

4462	330	240	307	347	352	342	378
61	351	271	373	377	365	373	378
60	391	308	427	435	433	425	
59	63	304	417	425	429	421	428
58	400	316	416	419	427		418
	368	291	388	400	406	390	393

		60	63	63		115	116	
4461		377	367	367		355	333	
59		S.C.	S.C.	432	50 minutes	448	430	
58		433	432	432		391	395	

107

Nov 25 1904 Lane

4458 – 5 Reg'n Charge 0.15 hours
in 33% 150 Halo 100 rate, the
Koff. / Containing 3 grammes
of Metallic Cadmium –
then put in 21% Chgs 200
rate 15 hours devel. gives rate
Center 88 Edge 100 – 99

4459 Rep'd 4458
Center 91 Edge 100 × 104

4460 " "
Center 91 Edge 100 + 104

4461 " "
Center 87 Edge 75 + 74

4462 " "
Center 91 Edge 101 + 102

4437	32	525	552	532	483	367	502
66	37	497	542	522	533	527	518
65	37	493	537	513	532	525	507
64	0	550	565	540	527	400	533
63	33	508	543	515	540	532	543
		514	548	525	523		

4467	538	515	520	554	525	532	533	528
66	505	497	520	542	520	524	527	533
65	505	493	513	535	518	522	523	532
64	527	550	528	533	512	514	515	527
63	532	510	528	545	532	530	SC	530
				540				530

		67	69	70		122	123
4465	Sunrise	567	533	540	Sunrise	563	540
64		578	540	533		556	528
63		S.C.	400	555		572	548

4469 —	97	103
68	100	105
67	98	95
66	97	99
65	97	97

Nov 25 1904 Lorie

4463 5 nickels put in 21% charged at 200 rate 15 hours strength 100 —
KOH Containing 3 grammes Cyanide Potassium
Reg none to be changed 24 hours at 200
before putting in collcoth Nickel
Center 89 Edge [illegible]

4464 Dup of 4463
Center 91 Edge 95 [illegible]
Soaked 4 days in Solution

4465 " "
Center 94 Edge 94 + 111

4466 " "
Center 91 Edge [illegible]

4467 " "
Center 90 Edge 91 + 102

4472	375	515	530	515	518	507	533	
71	440	495	527	507	516	500	533	
70	492	515	553	518	525	517	533	
69	420 430	513	533	510	[illegible]		sc	
68		503	525	507	513		533	

4472	507	522	507	512	522	513		
71	503	518	505	507	517	513		
70	512	527	517	516	527	515	x	
69	sc	522	sc	sc	502	514	x	
68	507		517	508	525	517	x	
					516	515		

	65	67	68		120	121	
4470	592	533	528	Soaking in	547	523	Indurance
69	533	523	523		553	523	
68	565	533	523		553	S.C.	

Not

Nov 25 1904

4468 5 nickels put in 21/0
Chgd 200 disch 100 15 hours KOH,
Containing 3 grammes Hyposulphite of
Soda + Rely ions to be changed
24 hours before putting in Co Cl nickel
nickel Center 87 Solge 97 + 100

4469 Dup of 4468
Center 92 Solg 101 + 104
Soaked pure chgs in Solution

4470 " "
Center 93 Solge 1[illegible]

4471 " "
Center 90 Solge 100 + 1[illegible]

4472 " "
Center 90 Solge 100 + 103

4477	7	130	130	100	95		
76	22	213	180	135	120	100	108
75	55	175	153	137	93	72	63
74	27	196	158	108	88	72	52
73	63	225	195	162	160	127	133

4477							
76	92	87	56	300	367	403	385
75	65	57	258	267	328	362	343
74	65	52					
73	116	113	307	313	400	427	408

Nov 25 1904 Cont

4473 5 Reg Nickels .. 21/0
Charge 15 hours 200 rate / develop 100
Rod Continuing 3 grains
Iodide of Sodium Reg cases
to be charged 24 hours before putting
in cell with Nickel — when through
with them pass them some away 1/03 + 1/03
Center 95 Edge 1/03 + 1/03

4474 Dup of 4473
Center 91 Edge

4475 " "
Center 92 Edge 102 + 104

4476 " "
Center 92 Edge 102 + 102

4477 " "
Center 92 edge 103 + 103

4482	442	502	533	533	527	511	512
81	432	506	532	517	513	510	512
80	447	507	528	510	517	497	506
79	433	505	528	512	517	497	509
78	440	507	528	506	513	496	503

						63	65	66	
4482	513	497	513	500	x	565	533	527	
81	511	500	512	505	x	575	515	527	
80	500	493	495	497	x	555	530	520	
79	500	492	497	492					
78	505	490	492	490					
				487					

		118	119
4482	Sommaire	558	522
81	Colonne	565	523
80		545	516

No 7

Date Nov 25 1904

4478 5 Reg Ni charged 200 rate 15 hours discharg 100 in 2% solution has been filtered with filter paper from 62 charged 24 hours before nickel put with it —

Charles 88 Edge 100 [illegible]

4479 Duplicate of 4478

Charles 88 Edge 90 [illegible]

4480 " "

Charles 88 Edge [illegible]

4481 " "

Charles 91 Edge [illegible]

4482 " "

Charles 90 Edge [illegible]

4487	455	508	517	513	517	500	505
86	442	510	532	518	525	507	508
85	448	463	530	512	523	510	510
84	456	520	530	515	522	510	512
83	457	512	530	514	522	510	513

						63	65	66
4487	500	488	491	492				
86	507	492	537	492				
85	507	492	498	495	x	567	533	525
84	510	491	502	503	x	573	530	502
83	510	497	497	498	x	567	535	523
				496				

		118	119
4485		557	522
84		568	527
83		597	515

No 7

Done Nov 25 1904

4483 5 Reg ni ~~[illegible]~~ charged 15 hours 200 rate in 2½% KOH, which has been boiled with filter paper, ~~[illegible]~~ and changed 24 hours before boiling with nickel. The Electrolyte has now 2 grammes of [illegible] precipitated. [illegible] put in —

Cooper 89 [illegible]

4484 Reg of 4483 Cooper [illegible]

4485 " " Cooper 89 [illegible]

4486 " " Cooper 89 [illegible]

4487 " " Cooper 89 [illegible]

4486	457	447	442
91	491	452	446
90	486	476	466
89	395	470	500
88	495	[illegible]	487
	451	462	472

Done

4488 = 5 pockets from Charged
Gibbs Coll grid Soaked 10 hours 2%
Center Hypersulphite Soda 14 Iron Soaked in
Acetic 40 hours, then fixed with
Iron previously, Charged 24 hours
Chg 15 hours, Rec rate slow 100
when finishing weight, then going down away
Center 101 Edge [illegible] 106

4489 Dup of 4488
Center 100 Edge 111+112

4490 " "
Center 97 Edge 103+105

4491 " "
Center 97 Edge 106+111

4492 " "
Center 95 Edge 101+103

99	485
95	476
94	432
94	542
93	497

	1st	2nd		
4497	462	485	473	455
96	460	476	465	470
95	433	433	425	433
94	520	542	533	544
93	488	497	485	500
	4496	496	4495	488

Lots

4493, 5 pockets from charged
Gold Gibbs Cell - Washed 1 hour
Cyanide potassium 3 grams 2nd washed
then no acid in 24 hours 40 hours
at foil with charged wood
Chlor .15 hours 200 rate
dissolved g 100 — [illegible]
Center 95 Edge 100 = 2

4494 Same as 4493
Center 99 Edge 104 + 108

4495 " "
Center 93 Edge 99 + 105

4496 " "
Center 93 Edge 100 + 104

4497 " "
Center 99 Edge [illegible]

4498	588	569	607	778	724	767	823	
449[illegible]	825	61[illegible]	[illegible]	775	692	727		

Harmony grammer

Done

#4498.

#2182 flux. 7:3 graphite & p min
Pot in vac, in 33% KOH
charge & run reg in charge-
device between 2 reg Fix.

Cents 46 [illegible] 102 + 104

4503	325	267	209	×			
02	265	215	153	110	82	65	49
01	272	221	175	125	85	68	54
4500	255	199	143	87	60	45	37
4499	308	263	216	162	125	97	76

4503		
02	42	30
01	47	32
00	32	20
99	65	53

Done

4499- 5 nickels charged in 21/[illegible]
Containing in the ~~[illegible]~~ solution [illegible]
of Aluminium Charge 15 [illegible]
at 200 volts during 100 [illegible] was
Cathodical rays — Lo Rea Wrong
with this group throw rows away
Center 92 Color [illegible]

4500 Dupnt 4499
Center 94 [illegible]

4501 " "
Center 92 102 + 105

4502 " "
Center 91 102 + 105

4503 " "
Center 90 100 + 102

4508	493	486	492	493	485	485
07	477	475	475	477	483	442
06	483	487	492	493	482	477
05	480	479	487	483	490	477
04	470	493	483	477	491	466

4508	477	477
07	480	479
06	482	492
05	482	482
04	482	482

Not all of the zinc was dissolved
A little left off the end wire - W.E.H.

Dull

4504 = 5 nickels ~~[illegible]~~ w 21 g.
Containing one gram of CP
Zinc, dissolved, have given fix it
by dissolving Electrolytically
Then C changes 200 rate 150 hours
dissolving 100 rate use Platinized
iron if when through with this
group throw now away

Results 93. [illegible]

4505 Dup of 4504
Results 92 [illegible] 101 + [illegible]

4506 " "
Results 88 [illegible] 100 + 101

4507 " "
Results 92 [illegible] 100 + 104.

4508 " "
Results 92 [illegible] 103 + 105

4513	268
12	408
11	340
10	205
09	425

Done

4509 - 5 Reg Nickels changed in all
21% ~~containing no tin~~ ~~[illegible]~~ three
(3) grammes of oxide of lead discovered
Charge 15 hours, 200 rate.
discharge 100 rate use Cathode of
iron when through with this
group throw the wires away
Center 90 Edge [illegible]

4510 Dup of 4509
Center 91 Edge 99 + 99

4511 " "
Center 90 Edge 97 + 102

4512 " "
Center 92 Edge 102 + 104

4513 " "
Center 88 Edge 101 + 102

4518	638	597	593
17	643	592	608
16	646	592	613
15	655	597	610
14	642	587	602

Done

4514 5 Reg nickels charged in 33%
150 fahr 15 hours at 100 rate, put in
Cell 21% or Chg 15 hours 200 rate, charging
100 rate. Then ~~put back in Incubator until~~ Cell 150° F
33% or charge again, running in 21%
so on until further orders
Center 91 Select 102 & 105

4515 Dup of 4514
Center 91 101 & 103

4516 " "
Center 92 Select 101 & 102

4517 " "
Center 90 Select 101 & 102

4518 " "
Center 90 Select 102 & 105

4523	500	506	494	488	495	487	485
22	500	506	495	490	493	487	483
21	495	506	495	490	492	488	486
20	495			[illegible]			
19	485	485	453	467	462	457	459

4523	487	481	475	468		482	484	×
22	487	475	467	468	483	489	484	×
21	487	477	467	488	483	483	483	×
20	[illegible]							
19	435	442	433	433	433	455	458	

Discharged

4523 [illegible] 1 month [illegible] discharge and [illegible] [illegible] 70.E.24

	65	67	68		121	122
4523	533	515	498	Discharge	528	484
22	525	500	498		520	477
21	520	500	499		523	481

Done

4519 5 nickel the cups of which have been thinly plated with iron. Charge in 21% 15 hours 200 rate discharge 100
Center 86 Edge 98 + 120

4520 Dup of 4519
Center 89 Edge 101 + 104

4521
Center 89 Edge 100 + 103

4522
Center 92 Edge 102 + 104

4523
Center 90. Edge 95 + 102

4528	413	522	522	518	508	532
27	498	529	526	529	517	535
26	512	524	524	527	504	525
25	173	516	525	527	512	535
24	521	524	506	527	500	525
		523				

									03	05	00
4528	515	504	490	499	500						
27	518	513	500	505	505						
26	510	507	492	493	500	x			533	515	500
25	516	504	486	500	500	x			525	527	525
24	512	507	500	497	501	x			545	527	497
					501						

		118	119
4526	Standard	500	500
25	Enhancement	552	510
24		548	507

4 | 261.5
523

No 1

Done

4524 5 nickels the caps of which are placed very thin cotton silver pat — 21% chg 15 hours 200 rate discharge 100 —
Center 89 Edge 102 + 102

4525 10 cup of 4524
Center 90 102 + 103

4526 " "
Center 90 Edge 101 + 103

4527 " "
Center 92 Edge 102 + 104

4528 " "
Center 90 Edge 101 + 103

4529	507	508	522	531	518	533
30	510	506	525	518	509	528
31	507	505	514	527	512	532
32	507	509	518	527	513	533
33	518	512	518	527	513	533
	510					

4533	511	512	497	508	507		63	65	66
32	516	503	490	492	500				
31	517	511	487	492	500 ×		509	520	520
30	517	503	487	500	500 ×		545	528	508
29	513	517	500	510	512 ×		590	533	525

4531		118	119
30	50 dimmed	543	510
29	50 dimmed	545	510
		570	528

5) 2549
500

5) 2519
504

507

Done

4529 5 nickels the cups of which are plated very thin with Cadmium fired in 21% CS_2 15 hours 200 volt discharge 100

Center 93 edge 105 + 107

4530 Dup of 4529

Center 91 edge 102 + 103

4531 " "

Center 95 edge 100 + 105 "

4532 " "

Center 89 edge 101 + 102

4533 " "

Center 90 edge 101 + 104

4538	498	505	511	515	508	508
37	506	515	526	529	515	513
36	490	508	510	522	502	520
35	499	505	512	522	502	513
34	497	505	513	520	502	515
	497	507	514	521		

4538	512	490	484	500	483	492	500
37	531	530	503	525	505	512	513
36	517	503	489	516	493	500	500
35	516	503	490	515	493	498	501
34	516	504	488		490	494	500
				515			503

		65	67	68		120	121
4536		553	520	520		537	505
35		560	532	519		558	519
34		542	529	520		542	506

Dec 3

4534 5 nickels plated very thin with Copper, Run in 21½ Chg 15 hours 200 rate dropping 100 rate,
Cents 90 100 + 103

4535 10 up-6 4534
Cents 88 100 + 102

4536 " "
Cents 89 102 + 102

4537 " 92 " 103 + 105

4538 " "
Cents 89 99 + 104

4538	498
37	500
36	490
35	499
34	497

45 42		487	499
4541	447	480	488
40	453	487	488
39	443	474	486
38½	450	480	486
	448	481	488

Done

4538½ 50 Fifty Nickels made up in little grid 3·2, and put in big bottle down on the heater 144 Fahr + glass stopper put in loose leaving only just enough vent for gas so KOH will not Carbonize, Use 21%
KOH, = Once each week Five minutes 5 + change. 15 hours 200 rate
check g 100, use Calbonized iron
Center [illegible] Edge 99+101
First lot.

4539 Dupe of 4538
Center 95 Edge 102 + 103

4540 " "
Center 94 Edge 98 + 98

4541 " "
Center 90 Edge 101 + 102

4542 " "
Center 89 Edge 98 + 99

4547	442	447	477	487	497	491
46	433	443	465	475	473	467
45	442	445	477	475	488	482
44	446	467	~~460~~	482	[illegible]	495
43	439	453	~~483~~		[illegible]	500
	440					

2nd Lot

Done

4543
Center 95 Edge 103 + 102

4544
Center 95 Edge 102 + 101

4545
Center 97 Edge 102 + 100

4546
Center 94 [illegible] 103 + 102

4547 Center 94 Edge 103 + 103

4552	392	440
51	415	467
50	415	442
49	418	470
48	420	474

3rd Lot

Dionne

4548
Center 94 Edge 103 & 102

4549
Center 94 Edge 101 & 102

4550
Center 92 Edge 99 & 101

4551
Center 94 Edge 102 & 104

4552 Center 91 Edge 99 & 100

4557	367	417	457	461	472	475	485
56	367	447	492	476	482	487	500
55	339	445	50	50	427	448	404
54	392	437	491		468	487	490
53	392	450	467	473	483	482	485

4557	512	462	467	442	455
56	522	483	487	476	500
55	433	392	388	367	400
54	544	472	470	467	470
53	500	461	460	450	453

4th. Lat.

Down

4553
Center 93 Edge 101 + 103

4554
Center 90 Edge 100 + 101

4555
Center 93 Edge 98 + 99

4556
Center 93 Edge 98 + 99

4557
Center 92 Edge 101 + 105

4562	395	458	475	482	486	498	472	467
61	377	449	475	484	486	500	475	s.c.
60	379	447	467	479	477	498	482	497
59	378	440	.	#				
58	317	433	450	469	467	480	472	485

4562	456	467	434	433	445	400	395
61	s.c.	—	202	530(?)	500	481	492
60	490	497	492	483	498	477	485
59	—	—	—	—			
58	475	483	476	467	480	460	467

5th

Gene

4558
Center 94 Edge 99 + 100

4559
Center 98 Edge 101 + 100

4560
Center 94 Edge 102 + 103

4561
Center 94 Edge 99 + 102

4562
Center 94 Edge 102 + 100

4627	467	476					
66	468	457	438	445	431	433	411
65	427	408	433	445	433	433	411
64	460	473	464	483	482	488	482
63	490	482	459	482	482	497	487

67		478	478	487
4566	400	408	388	353
65	400	407	367	362
64	477	482	442	467
63	483	491	477	487

6th Lot

Dime

4563
Center 96 Edge 104 + 103

4564
Center 90 Edge 103 + 101

4565
Center 90 Edge 99 + 101

4566
Center 90 Edge 95 + 96

4567 Center 92 Edge 100 + 100

4572	388	465	478	494	506	498
71	378	455	478	498	515	513
70	378	458	467	497	506	498
69	394	467	485	508	517	517
68	380	458	467	485	507	504

4572	500	487	500	467	476
71	523	513	522	488	489
70	500	477	465	400	400
69	525	513	525	495	500
68	500	497	506	467	480

7th Lot

Done

4568
Center 90 Edge 103 & 101

4569
Center 90 Edge 102 & 104

4570
Center 93 Edge 100 & 100

4571
Center 94 Edge 103 & 101

4572
Center 94 Edge 100 & 101

4577	367	432	437	457
76	367	444	453	477
75	373	454	458	477
74	367	441	444	472
73	373	459	464	465

8th Lot

Dime

4573
Center 91 Edge 103 + 104

4574
Center 93 Edge 98 + 102

4575
Center 94 Edge 102 + 102

4576
Center 92 Edge 102 + 101

4577 Center 90 Edge 101 + 103

4582	343	383	375	365	339	333	328
81	400	467	480	467	447	519	422
80	382	450	478	482	480	492	492
79	367	447	455	447	422	410	390
78	367	383	390	353	340	333	325

4582	333	327	333	337	340
81	428	415	433	428	423
80	500	483	514	508	477
79	387	367	400	383	375
78	322	293	303	299	283

C.O.

9th Lot

Dunc

4578
Center 96 [illegible]

4579
Center 90 [illegible]

4580
Center 92 Edge 99 + 101

4581
Center 94 Edge 102 + 100

4582
Center 90 Edge 101 + 108

4586 ½	382	457	485	483	500	503
86	358	268	472	443	455	443
85	367	457	492	492	513	518
84	390	467	498	495	514	513
83	382	442	462	422	423	423

4586 ½	467	467	498
86	400	400	490
85	489	510	517
84	477	467	500
83	382	387	367

C.O.

10th Cut.

Dam

4583
Cent. 94 Edge 104 + 103

4584
Center 92 Edge 101 + 101

4585
Center 91 Edge 108 + 103

4586 —
Center 93 Edge 100 + 108

4586 ½
Center 94 Edge 100 + 101

	1	2	3	8	9	57 Run on Enhancement	61
4587	570	573	575	558	[illegible]		617
88	569	578	572	558	580		648
89	570	582	579	563	582		650

	63	65	57 Run on Enhancement	116	117
4587	600	580		653	647
88	600	590		643	609
89	577	600		640	602

Lowe 11/27/24

4587.

Cal. $\frac{E}{121}$ $\frac{E}{120}$ $\frac{E}{116}$

3.84 gm #2182 pwa = 2.56 Mn(O H)$_2$
= reg amount Mn for 3.2.
Grid mode in reg cups
Passed at 100 smooth 100 coming
in Gold dandy concave O-convex
dia, 1 Stuff loaded in outside cup.
Flu in end cup being convex -
Put in 21% KOH + charge reg with
two reg chl'd Fe's.
Run 3 times reg 100 watts. + 3 times 500 watts
+ set aside for inclusions. -

4588.

Dup of 4587 $\frac{E}{122}$ Cal. $\frac{E}{118}$ - $\frac{E}{118}$

4589.

Dup of 4587 $\frac{E}{122}$ Cal - $\frac{E}{120}$ - $\frac{E}{117}$

	1	2	3	8	9		61
4590	505	522	522	506	514	Redukanoon	567
91	512	527	528	517	530		558
92	515	526	525	517	527		594

	63	64		116	117
4590	531	570	Redukanoon	557	517
91	543	547		573	532
92	533	530		547	509

Dox 8 11/27/04

4590.

3.2 gm. #424 Reg. Ni mix.
Cups with reverse perforations of
reg strip Ni plating (cup was worked by Hell)
Goldhardt concave & convex cups.
19 inside cup loaded in reg way.
Primed 100c – 100c. c
Cal. 102 – 96 – 99.
Run reg in 21 % against 2
charged Fe's.
Run 5 min at 100 Rotes.
4 3 " " 570 " 4 cut inside
for small indurance –

#4591

Duf of #4590 c c c
Cal 102 98 98.

#4592.

Duf of 4590 c c c
Cal 101 97 97

Reverse under 157 B.

4593 = Cu from 157 ordinance treated with Na Iodide 24 hours in cell, Washed 21% KOH in — then changed KOH, + soaked another 24 hours, then changed KOH. Charge 15 hours 200 rate discharge 100 rate, ~~[illegible]~~ went bad worse than before —
Reversed it 15 hours 100 rate hot in 21% Came way up. 327 I think we now reverse it again hot 150 fahr 15 hours 100 rate I think to see if Cant get it higher still.
Dec. 2 = 407 — did not use strip but Reg non on Anode in reversing —

	1		2 (4 hr dry)	3	4	5	6
4598	487		503	473	493	492	497
97	473		483	476	500	496	500
96	488		493	471	490	490	469
95	450		496	478	500	496	500
94	497		475	476	493	492	497
	497.7		8	9	10	11	12
4596	506		487	485	497	472	477
97	511		492	490	502	485	482
96	497		473	480	488	473	466
95	510		500	475	505	487	482
94	500		487	475	505	497	474
	13			65	62	68	120 121
4598	465		Sodium ore			Sodium ore	
7	490						
6	474	x		542	500	500	537 483
5	491	x	57	558	530	527	553 504
4	486	x		550	517	500	547 493

No 7

Dune

Centre 87 Edge 97 & 105

4594 Group of 5 Reg nickels assembled with iron pockets which has no measurably in the black mix we have a bottle of it here — Charge 15 hours 200 rate charge 100 rate 21%

Charge the iron 15 hours 200 rate before assembling with nickels —

4595 Dup of 4594

Centre 91 Edge 101 & 103

4596 " "

Centre 90 Edge 99 & 99

4597 " "

Centre 88 Edge 99 & 99

4598 " "

Centre 91 Edge 100 & 103

	1	2	3		4	5
4603	553	450	477	[illegible]	488	465
02	650	575	561	[illegible]	550	577
01	633	580	565	[illegible]	540	547
00	625	543	538	[illegible]	537	532
4599	282	225	240	[illegible]	232	235

	6	7	8	9		10	11
4600	466	454	455	467		450	453
2	533	540	537	533		553	540
1	529	524	530	525		530	532
0	522	525	522	543		520	522
4599	220	207	200	189		183	200

	12		64	66	67		119	120
4603	455	x	488	450	434		486	467
02	545	x	617	543	532		553	532
01	533	x	565	543	522		498	525
00	530							
4599	188							

Sp. Grav. 1.2

Sp. Grav. 1.2

Done

4599 Group of 5 nickels CHARGED in 33% 150 7 hr 100 rate 15 hours, and reconditioned with Black iron containing No Mercury which have been previously charged 15 hours 200 rate — Then Recharge CCC 15 hours 200 rate 21% during 100

Center 84 Edge 98+98

4600 Group of 4599

Center 91 Edge 102+104

4601 " "

Center 90 Edge 99+102

4602 " "

Center 86 Edge 99+101

4603 " "

Center 91 Edge 102+102

4608	87	177	256	247	250
07	97	170	250	237	260
06	132	229	303	293	278
05	125	209	272	266	266
04	113	152	220	214	233

Denis

4604 Group of 5 nickels green oxide ground to pass 100 mesh 3:2 no graphite put in bottle with 33% of soaking 48 hours dissolve stains on hot plate, flow assembled with 129 items — 21% Charged 15 hours 200 rate discharge 100 rate.

Centers 99 Edge 114+114

4605 Cup of 4604
Centers 97 Edge 112+112

4606 " "
Centers 97 Edge 111+114

4607 " "
Centers 97 Edge 110+112

4608 " "
Centers 97 Edge 111+112

4613	497	513		463	505	513	493
12	425	450	447	457	450	450	443
11	433	505	[illegible]	463	507	508	492
10	442	513	[illegible]	490	480	508	492
09	433	508	[illegible]	490	487	483	483

4613	497	500
12	436	431
11	497	497
10	495	[illegible]
09	482	491

Anode Bar O.K. – W.E.M.

Done

4609 5 Reg. Nickels, assembled & put in 21%. The irons are to be regular irons which have been made ANODE in 33% 15 hours 100 rate, against a Nickel Iron –

Rev. Chg. & Then Chg the irons 15 hours 200 rate & run the Ace with the Nickel in Chg 15 hours 200 rate [illegible] 100 [illegible] 21% [illegible]

Center 92 Edge 104 + 105

4610 Rep of 4609

Center 94 Edge 104 & 105

4611 " "

Center 89 Edge 99 + 102

4612 " "

Center 88 Edge 101 + 102

4613 " "

Center 88 Edge 100 + 102

4618	467	477	495	523	477	185	493
17	479	500	499	528	494	208	497
16	473	499	495	516	479	192	487
15	473	488	496	525	503	186	467
14	495	497	497	525	480	185	490

4618	477	478
17	492	506
16	477	476
15	474	471
14	477	479

Reversals stc recov. Cycled at on time
Group kept to 2nd run

Remarks O.K. after 2nd run – W.E.H.

Done

4614. Group of 5 Reg 111 & Brass put in 21% in cells. The Charge 15 hours 200 rate discharge 100 rate to Zero, then put on Reverse 15 hours 200 rate. Then Charge 15 hours 200 rate & Continue this for 5 Cycles Then run reg control tests (10) Chg 15 hours 200 rate discharg 100 rate. This to see if Reversing is bad –

Centre 88 Edge 95 & 100

4615 Dup of 4611 f

Centre 90 Edge 102 & 103

4616 " "

Centre 90 Edge 101 & 103

4617 " "

Centre 92 Edge 101 & 104

4618 " "

Centre 89 Edge 100 & 100

4623	72	75	75	64	58	73
22	115	77	111	67	62	83
21	78	101	100	90	103	101
20	147	78	108	67	64	79
19		132	108	97	106	103

4623	74	74	67
22	82	65	77
21	99	100	98
20	96	75	72
19	99	103	96

$x = CO_3 - O.x$ - W.E.H.

Done

4619 — Group of 5 ml = Reg. from Run in 25% per cent Carbonate of Potassium nitrate Chg 15 hours 200 rate dischg 100 rate

Center 89 Edge 100 & 102

4620 Dup of 4619
Center 89 Edge 100 & 101

4621 " "
Center 90 Edge 101 & 102

4622 " "
Center 90 Edge 100 & 100

4623 " "
Center 91 Edge 102 & 103

	1	2 (4 hours chg)	3	5	6	7
4625	477	501	350	365	358	337
27	475	491	392	412	415	387
26	477	498	430	449	450	475
25	478	497	333	350	350	342
24	472	498	373	398	400	378
	475.16	481.16	375.16			

	8	9	10	11	12	13	14
4628	341	333	320	340	343	350	332
27	396	333	365	383	367	380	392
26	442	442	465	450	442	450	425
25	360	332	322	337	325	350	333
24	395	392	387	392	340	395	398

465

Only Reg KOH put in up to 2nd run

H_2CO_3 O.H. after 2nd run - 10.E.H.

			66	68	69		121	122
4627	5	[illegible]	329	354	323	5	232	233
26	5	[illegible]	417	433	409	5	300	325
24	5	[illegible]	357	390	357	5	267	263

No 7

Done

4624 Group 5 Reg Hi Reg Lim
Run in Solution 5% KOH 15%
Carbonate Potash.
Chg 15 hours 200 discharg 100
Center 92 Edge 103 + 105

4625 Dupe of 4624
Center 95 Edge 105 + 102

4626
Center 98 Edge 102 + 103

4627
Center 90 Edge 103 + 102

4628
Center 92 Edge 101 + 104

	1	2 (hours)	3	5	4
4629	480	500	468	495	483
30	477	500	487	498	497
31	475	493	482	493	487
32	479	484	481	484	497
33	475	502	483	493	502
	477	499	480		

	7		8	9	10	11	12	13
4633	492		500	498	498	500	495	467
32	485		499	487	479	495	487	473
31	485		495	487	465	492	495	467
30	485		490	497	475	492	487	477
29	486		489	480	469	467	467	367
							490	

only Run KOH 489 [illegible]

K_2CO_3 O.N. after 2 ind. runs – 70.8.%.

	14			66	68	69		121	122
4633	497	x	5% [illegible]	545	504	500	5% [illegible]	500	500
32	475	x		533	510	493		508	487
31	472	x		532	515	493		518	498
30	487						50 [illegible]		
29	475								

Done

4629 Group 5 ni Reg iron

Run in 10% KOH, 10% Carbonate Potash

Charge 15 hours 200 rate dissolving 100

Center [illegible] Edge [illegible]

4630 Group 6 4629

Center [illegible] Edge [illegible]

4631 " "

Center [illegible] Edge [illegible]

4632 " "

Center [illegible] Edge [illegible]

4633 " "

Center [illegible] Edge [illegible]

	1	3	4	5	6	7	8
4638	515	500	519	513	521	527	510
37	398	382	378	374	374	376	367
36	457	488	506	490	504	513	500
35	413	450	462	462	470	477	463
34	478	497	512	507	515	524	511
		100	47[illegible]				

Mother Culture [illegible]

~~[illegible] KOH [illegible]~~

	9	10	11		12	13	
4638	535	518	513	[illegible]	520	502	x
37	390	364	368	[illegible]	377	366	
36	522	493	497	[illegible]	500	490	x
35	487	467	467	[illegible]	462	455	
34	533	519	512	[illegible]	512	505	x

Subcultures

	65	67	68		120	121
4638	554	500	493		467	467
36	550	487	478		458	457
34	565	509	500		500	483

107

Done

4634 Group 5 Ili Reg Frac

Run in 15% KOH 5% Chromonitic Potash

Chg 15 hours 200 rate dis 100

Centrifuge [illegible] Solpt [illegible] 2 + 86

4635 Dup 4634

Centrifuge [illegible] Solpt [illegible]

4636 " "

Centrifuge [illegible] Solpt [illegible]

4637 " "

Centrifuge [illegible] Solpt 100 + 103

4638 " "

Centrifuge [illegible] Solpt 103 + 103

4643	65	84	106	106
42	65	93	97	100
41	65	120	110	108
40	25	62	100	109
4639	65	90	120	111

Done.

4639 Charging 5 Ni. filled with the green hydroxide 30 mesh no grafite. Soaked 48 hours in bottle drawn starts in 33% overnickel on Nickel Oxide + CHARGE + DISCHARGE in 33% S

Center 96 Edge 107 + 111

4640 Dup of 4639
Center 95 Edge 108 + 109

4641 " "
Center 94 Edge 106 + 107

4642 " "
Center 95 Edge 109 + 111

4643 " "
Center 96 Edge 109 + 111

Silvering skeleton which is made
Solution thickly just like beg
Cell plates gold on surface in
Rott Hot)

4644 — String 10 inside & 10 outside
Cups on iron wire, use this as
~~cathode~~ anode put 10 inside & 10 outside
on another wire make this the Cathode
put in 33% 150 % fahr 15 hours
100 rate ~~the~~ stir them around
now & then so all get evenly coated
then hand jar to Edison —!

I find the inside cup bright
but under microscope find they
are thickly coated with Silver
bun like crystals used Rott or
water all alright for inside
& ~~cup~~ not with the 33% solute
or H Cl solution. The Cathode
was badly coated with wire
which in order to prevent
& mixed in the broken wire the
same kind of bun like crystals

On a pair of cups in Nickel
beaker the crystals in Cathode
were larger & separate — in case
H Cl gave silvering like skeleton
of the crystal total multiple volume coat
both fine & larger crystals space

4645 – 5 ml made of Anode
Cups. in 33% –
Reg 3.2 ml. 21% chg 15 hours
200 dev 100. –
Center Edge

4646 Dup 4645 –
Center Edge

4647 " "
Center Edge

4648 "
Center Edge

4649 "
Center Edge

4650 – Group 5 Ni made
with Cathodical Cyl. 2
Run in 21% chg 15 hours 200
rate deg. 100
Center Edge

4651 Dup of 4650
Center Edge

4652
Center Edge

4653
Center Edge

4654.
Center Edge

4659	55	192	183	188
58	85	223	223	224
57	75	200	197	197
56	40	163	172	166
55	72	197	198	206

Done

4655 Group 5 ni with Green hydroxide, dipped 3 minutes in our regular Nickel Sulphate Solution Then dried, and put to Soak 180 hours in 33% down Stairs then assembled with reg rims chg 15 hours 200 rate oliveby 100 - 21%

Center 99 Edge 108 + 111

4656 Dup of 4655

Center 107 Edge 114 — 116

4657 "

Center 103 Edge 112 + 114

4658 "

Center 104 Edge 112 + 113

4659 "

Center 100 Edge 104 + 109

	1	3	4	5	6	7	8
4664	442	524	518	521	525	526	507
63	440	513	517	498	513	511	500
62	413	520	542	508	512	512	498
61	445	521	527	[illegible]	529	524	507
60	440	523	527	505	522	522	510

	9	10			62	64	65		117	118
4664	512	515	x	6	567	533	500	5	533	523
63	512	508								
62	512	50								
61	568	512	x	7	560	542	526	5	510	530
60	514	517	x	6	538	527	510	5	510	523

5 Volts

No 1

4660 – Group 5 Ni Reg mix
dipped 3 minutes in our
Sulphate of Nickel, ~~put~~ dried
on plate then put to soak
120 hours in 33% chrome
Stains in bottle then
assembled & put in 21%
Chg 15 hours 200 rate
dischg 100 –
Center 91 edge 98 & 101

4661 Dup of 4660
Center 91 edge 101 & 102

4662 "
Center 91 edge 101 & 102

4663 "
Center 96 edge 101 & 105

4664
Center 90 " edge 99 & 103

Jo1.4V.

	1	2		3	4	5
4669	476	477	465	467	463	467
65	470	522	465	500	500	497
67	471	513	[illegible]	495	492	490
66	467	508	512	490	493	497
69	478	518	502	478	473	473

	6	7	8						114	115
4669	457	460	473							
68	475	492	503	x		452	460		367	460
67	467	473	495	x						
66	467	468	500	x	493	457	445	Endurance	368	433
69	488	469	503	x	505	493	515		407	461
					498	498	463		400	450

Solution which peep

NO7

Dine

4665 = Group of 5 Nickels assembled in Cells with Mercury in bottom jar saturated with Zinc, about 1/16 thick —

Charge 200 rate 15 hours chg. 100 plus 2 21% KOH, Cover of mercury by ~~Nickel wire, CP Nickel~~ —

Centre 93 Sept 104 + 104

4666 Duplicate 4665 Centre 89 Sept 100 + 101

4667 " Centre 93 Sept 105 + 106

4668 " Centre 92 Sept 100 + 104

4669 " Centre 89 Sept 100 + 102

4674	522	510	517	508	517	528	512
73	519	490	513	507	516	526	505
72	516	490	505	496	506	507	493
71	523	490	517	515	521	527	510
70	523	518	513	507	516	527	500

4674	533	507
73	527	500
72	512	495
71	527	507
70	520	503

Treatment O.K. - J.E.H.

Done

4670 Group Reg Nickels -
Charge in 21% 15 hours 200 rad
then take them off charge 15
hours, then put them on
charge again for 15 hours
off again 15 hours then
Charge 15 hours & check
100 fate, This makes
3 charges & 2 rests —
Center 87 Edge 100 + 100

4671 Dupe of 4670
Center 88 Edge 99 + 102

4672 "
Center 86 Edge 97 + 100

4673 "
Center 91 Edge 101 + 101

4674 "
Center 91 Edge 102 + 104

4679	497	499	500	506	519	511	
78	492	499	498	499	514	507	
77	495	503	505	505	512	507	
76	497	507	505	507	516	508	
75	499	502	500	505	512	500	

Done

4675 Group 5 Nickels - put in Convex side flat on the other - 21% Chg 15 hour 200 reading 100
Center 97 Edge 82 + 83

4676 Dup of 4675
Center 94 edge 83 + 85

4677 "
Center 98 edge 84 + 88

4678 "
Center 96 edge 89 + 90

4679 "
Center 96 edge 90 + 89

	1	2	3	4	5	6	7
4684	475	505	522	523	517	550	532
83	472	500	517	552	565	548	532
82	470	500	513	543	565	547	530
81	457	508	514	552	533	548	532
80	466	500	513	540	547	542	530
	477	502	517	543	545		

This is Reg M —
4680 [illegible] group —
were transposed —

NOT

	8	9	10			62	64	65		117	119
4684	544	527	537								
83	544	527	533								
82	537	462	532			598	547	532		542	530
81	540	523	533			603	548	533		555	533
80	538	526	532			593	547	533		532	532

Probably wrong dye per Cadeyo

Dyne

4680 5 nickels with green hydroxide — dipped 3 minutes in Ammonia Solution containing Chloride Ammonium, in which Nickel Hydroxide is dissolved, dried on plates. To be washed 156 hours in 95% on hot plate after plating. Then assembled with [illegible] Charged in 21% 15 hours on 200 rate [illegible] 100

[illegible] 92 Edges 130-4-135

4681 Dupe of 4680

[illegible] 92 Edges 100-103

4682 "

Center 90 Edges [illegible]

4683 "

[illegible] 92 Edges [illegible]

4684 "

Center 92 Edges 101-102

Not assembled

4667	89	248	300	368
88	93	226	292	302
87	67	188	260	287
86	115	238	295	325
85	97	227	273	317

These so mixed with 4685 — they are also [illegible] Dakotas

Secretary

Dies

4685 Same as 4680 Except Blacknickel Reg mix used
Center 101 Edge 110 + 112

4686 Dup of 4685
Center 104 Edge 110 & 110

4687
Center 106 " Edge 113 & 116

4688
Center 102 " Edge 111 & 113

4689
Center 103 " Edge 112 + 113

4692	227	245
91	167	148
90	0	0 15 hrs

Cox

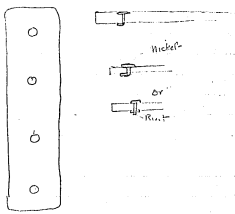
4690. Three packets from Gibbs batting, washed were changed treated in 30% HCl. Solution for seven minutes then washed in water. 3 hours water changed 3 times — to 62 put in goods ~~The 2 steps combined~~ + Charged 200 rate. 15 hours clearing 100 rate.

4690 Center 97 Edge 101

4691 Dup of 4690
Center 96 Edge 100

4692 " "
Center 97 Edge 102

4693 Group of 5 nickels
with rivets in Kiwo - corrugated



4694

4695

4696

4697

	1	2	3	4	5	6
4702	557	537	527	523	542	508
01	527	535	523	520	542	517
00.	547	540	528	530	537	516
4699	576	543	532	520	522	512
4698	565	527	527	523	530	506

	7	8			60	62	63		115	116
4702		503								
01	517	511								
00	517	517	X		507	508	497		508	477
4699	512	505	X		542	513	499		522	500
98	512	506	X		558	512	498		518	500

Weed & strip hundred

NO7

Lage

4698 5 Rej 11. 10 old irons.
Change the 15 in 33% as under
15 hours 102 & 97 - 100 Tube
the 109 irons as Collimator
unscrew clock, then assemble in
21% 11.31
Collimator Clock 15 hours 200 with clock 100
Centre 92 Edge 101 + 102

4699 Dupicf 4698
Centre 90 Edge 102 + 100

4700 "
Centre 91 Edge 101 + 101

4701 "
Centre 89 Edge 99 + 101

4702 "
Centre 90 Edge 102 + 102

Irons

1	centre	80	edge	92 + 92
2	"	80	"	92 + 99
3	"	82	"	91 + 91
4	"	81	"	92 + 92
5	"	81	"	98 + 90

4707	608	533	480	467	442	440	423
06	587	500	452	447	420	436	433
05	610	555	492	482	435	428	433
04	608	542	472	450	432	446	432
03	600	542	488	477	435	447	433

Dark

4703 — 5 Reg Ni only crumpled
Smooth Concave disc 400 pressure
Reversed perforations —
Charged 15 hours 150 fade 100
rate then charged 15 hours 200
rate decay 100 21% K.A.N.
Center 85 Edge 102 + 105

4704 Reg. 4703
Center 84 Edge 104 + 103

4705 "
Center 85 Edge 106 + 104

4706 "
Center 86 Edge 104 + 105

4707 "
Center 84 Edge 101 + 105

4712	482	475	476	474	447	449
11	478	480	480	471	463	448
10	472	461	463	460	433	473
09	472	466	467	463	447	438
08	473	468	453			432

4712	427	428	433
11	428	427	428
10	418	414	415
9	415	414	417
8	422	423	433

Lone

4708 5 Reg M Received [illegible]
Crimped smooth Connexions [illegible] 100 atmos
Charged 200 rate 15 hours [illegible]
100 rate no correction 21% K.O.K.
Center 85 Edge 103 + 103

4709 Dup of 4708
Center 85 Edge 103 + 106

4710 "
Center 86 Edge 105 + 107

4711 "
Center 85 Edge 105 + 106

4712 "
Center 85 Edge 106 + 105

4717	423	494	493	473	487	483	
16	420	482	493	490	487	492	
15	421	489	490	492	488	493	470
14	425	489	490	490	485	493	471
13	422		492	485	500	495	483

4717	488	477	483
16	487	475	485
15		475	
14		476	
13			

4713 - 5 Reg nickels reversed perforations, in small cells. Containing 3 grammes of a concentrated solution of Nickel in KOH, 2nd Containing Citrate of Potash, - Reverse cond: 15 hours 200 rate. Dark: in fresh KOH 10 hours Then put in new potash, Chg 15 hours 200 rate. Check 100

Center 92 Edge 103+103

4714 Dup of 4713
Center 93 Edge 102+103

4715 "
Center 93 Edge 103+103

4716 "
Center 94 Edge 103+102

4717 "
Center 92 Edge 104+105

4722	457	484	480	517	490	497	492
21	457	483	493	516	490	498	492
20	453	8¢	483	488	483	492	490
19	457	483	495	489	492	494	498
18	453	487	487	463	462	490	491

Dime

4718 Reg in group of 5.
Reversed perforation, Reversed hot
150 Fahr in Five percent KOH,
against Metal strip ~~then~~
~~[illegible]~~ 15 hours 100 rate,
~~[illegible]~~ then assembled with Reg
Trans + Cleaned 15 hours 200
rate cleaning 100 — 5% KOH
Center 91 Edge 103 + 102

4719 Dup of 4718
Center 87 Edge 102 + 103

4720 "
Center 90 Edge 101 + 104

4721 "
Center 96 Edge 102 + 103

4722 "
Center 89 Edge 102 + 104

	1	2	3	4	5		57	59	60	
4726	490	495	217	513	505					
25	490	495	220	516	505					
24	486	497	219	517	505	X	548	520	511	Sample [illegible]
23	483	497	212	507	[illegible]	X	533	523	511	
22½	484	493	217	515	505	X	S.C.	517	S.C.	

	112	113
4724	533	478
23	508	508
22½	510	487

107

Done

4722½ Group 5 [illegible] Reversed 150 Fall
Five per cent KOH, 15 hours, 100 rate assume
with 1 kg mins Charged 15 hours 200 rate
discharge 100 rate, 21%
Center 91 Edge 101 + 103

4723 Discharge 4722
Center 92 Edge 103 + 103

4724 "
Center [illegible] Edge 99 + 102

4725 "
Center 91 Edge 100 + 103

4726 "
Center 87 Edge 98 + 100

4731	597	530	505	50	62	[illegible]	+
30	608	530	502	514	500	[illegible]	495
29	610	530	507	514	497	499	498
28	605	528	508	513	493	[illegible]	489
27	597	525	505	450	492	[illegible]	487

4727 - Group Rag Mi [redacted]
Reverse & perforations, Charged
15 hours in five per cent Roff,
100 rate. [redacted] 150 Fahr -
Then assemble with Rag irons
Charge 15 hours 200 rate dissolve
100 rate 21%
Center 89 Edge 100 + 101

4728 Dup of 4727
Center 89 Edge 102 + 103

4729 "
Center 90 Edge 101 + 102

4730 "
Center 90 Edge 102 + 103

4731 "
Center 96 Edge 100 + 103

	1	2	3	4	5	6			58
4736	604	543	520	507	527	512		50 mins on	
35	611	527	513	504	524	513			
34	622	535	518	511	530	511	X		540
33	618	60	540	512	528	511	X		550
32	614	538	523	513	530	513	X		577

	60	61	113	114
4734	497	479	485	467
33	507	497	488	478
32	514	497	500	483

50 mins on

No 7

Done

4732 Group Reg Ni Reversed perforations Changed in 5% KOH 150 Sulphur compte 30 hours 100 rate, then remembered Reg iron & Changed 15 hours 200 rate deck of 100 — 21%

Center 90 Edge 102 + 102

4733 Group 4732

Center 89 Edge 100 + 101.

4734 "

Center 87 Edge 101 + 101

4735 "

Center 90 Edge 104 + 103

4736 "

Center 89 Edge 103 + 101

1137	~~2104~~	2133	21/3

Security

4737 Done

Cage of 5 seg. of wight tile
on one scale & 5 seg. Dome
Charge 30 hours 200 rate per
pocket [illegible] 100 Rate per pocket
Thereafter charge for 15 hours
200 rate per pocket [illegible]
100 [illegible]
Allow 21/0 —

4738	2242	2283	2133	2142	2175	2067	2067
" 37	2183	2167	2133	2175	2193	2125	2167

4738	2084	1667	1333	2067
37	2084	1900	2000	2000

Done

4738 Cage of 5 Ni + Fe -
Reversed perforations
tit separations Changed in
21% 30 hours 200 rate
per pocket dus 100 rate
per pocket There after
Chg 15 hours 200 rate per
pocket dus 100 rate per
pkt,

4739 = Old No 26 Jwd endurance

Cell - Reverse at 150 fahr 15 hours at 100 rate per nickel pocket against nickel strip. Then Change KOH and charge regular. 15 hours 200 rate, then reverse again 150 fahr 15 hours 100 rate & Chg regular 15 hours 200 rate duty 100 rate per pocket, Keep this alternate Reversing & changing until further notice.

4742	368	53	317	315	192		
41	267	290	321	362	45	343	
40	293	23	270	322	222	289	
39	348	256	0	325	207	275	

How was this manipulated?

4742	300	314	
41	348	397	342
40	274	315	282
39	258	293	267

Done

4739 pocket from old Endurance Cell No 26 — to 62 recovered 150 fahr 100 rate in 21% 15 hours ~~[illegible]~~ in the little bottle — the bottle to to have the now assembled with it ~~[illegible]~~ ~~[illegible]~~ + used as anode in recovery. Then chgd 15 hours 200 rate deschg 100 — Then alternately Reversed + Charged as being no it shows improvement Chg. 92 KOH after each reversal —

4740 — Other pocket from No 26

4741 " "

4742 "

4743 Take 5 pockets Change
Peg in 21/0 18 hours 200 rate
dubbing 100. rate after
dubbing quiz to find out to calliper
or put a 1/16 hole at one end (lower end)
~~the~~ Calliper each pocket
3 places on single side of 3
places in the middle then
put in 33 at high wipers to
see all the mistakes after
all or nearly all are to quiz
to find out to Calliper for
some places want to
see how much the cup
shrinks after it has swelled
by changing —

4739 group of 10 Irons
old amount dip
Made anode in 33% 100 rate
15 hours then accumulate
with Ref. nickels
Changed 15 hours 200 rate
disabling 100 rate 24
Center 88 edge 100 & 100

4740 10 cup 6 4739
Center 81 edge 100 & 103

4741 "
Center 88 edge 98 & 102
Changed to 4919

4742 "
Center 90 edge 102 & 102
on account of Drop

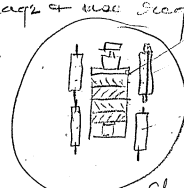
4743 "
Center 92 edge 103 & 103

4744	2106	2267	2300	2258	2317	2350

4744	2258	2317	2317	2208

Done

4744 Make a bird Cage
Call with 5 nickels on the
Cage or use Scag 4 inch Thus

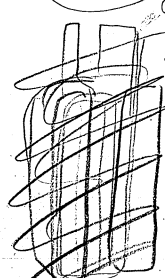


1/16

Ry [illegible] old

21% K.O.H.

Charge 15 hours 200
rats per pocket of Ni
plus 100 rats for pkt -



4749	402	50	404	420
48	412	407	389	420
47	408	407	389	413
46	410	415	397	417
45	387	415	377	400

Done

4745 Group Reg. III with green hydroxide 842 The 2 of graphite being Coarse graphite mixed only Soak 96 hours 33% on hot plate [illegible]
Change in 21% with [illegible] 15 hours 200 with [illegible] 100
Center 95 Edge 106 & 105

4746 Dupa 6 4745
Center 97 Edge 107 & 104

4747 "
Center 96 Edge 107 & 106

4748 "
Center 95 Edge 105 & 103

4749 "
Center 98 Edge 106 & 108

4750 Reg ni put in Cup —
which would anode in 33%
at 150 fahr — Iron get deposited
on Chem + now oxidized —
Charge 15 hours 200 Ohm 100
in 21% —

4751 Cup 64750

4752 "

4753 "

4754 "

4759	330	203	502	498
58	325	217	512	500
57	324	220	510	499
56	323	217	517	500
55	325	210	509	499

Done

4755 = Group 5 ni

Charge Reverse in 21½ 150. Fahr 15 hours 100 rate, then Change at 150 Fahr 15 hours 200 rate during Control 100.

Center 92 Edge 104 – 105

4756 Dup of 4755

Center 91 Edge

4757 " Center 90 Edge 94 – 95

4758 " Center 89 Edge 98 – 101

4759 Center 89 Edge 98 – 98

Upon the polarization of electrons depends nuclear on magnetic moment

Cast + nominal resin against cat. nickel [illegible] – D.E.M.

4764	518	517	510	505	490	497	499
63	529	516	503	506	487	498	490
62	525	317	497	500	487	490	482
61	498	495	490	500	483	481	483
60	488	490	493	487	484	487	482

4760 — Group of 5 Nickels
Charge 3 hours 200 rate,
Rest 10 hours charge 3 more
hours rest 10, until you
have 15 hours charge in
then charge 100 -2% R.C.H.
Center 90 Edge 101+98

4761 Dump 67/60
Center 89 Edge 100+101

4762 "
Center 87 Edge 97+102

4763 "
Center 88 Edge 100+101

4764 "
Center 89 Edge 99+101

	1	2	3	4	5	6
4769	493	492	498	517	487	480
68	483	470	472	478	465	463
67	497	492	506	513	490	513
66	506	509	513	521	512	513
65	505	507	512	522	502	513
	499	503	500	510		

	7	8	9	10		62	64	65	
4769	510	492	469	500	Endurance				Sorry on
68	472	455	457	458					
67	515	485	496	487		540	517	507	
66	522	490	500	500		587	533	511	
65	517	493	501	500		577	528	511	
				489					

	117	118
4767	527	507
66	533	523
65	508	527

No 7

2245
487

Done

4765 – Group 5 Reg nickels
Use 21% RCH made from
Stick patch by circular
Chg 15 hound 200 rate
discharge 100 rate
Center 89 Edge 100 + 101

4766 Cup – 4765 –
Center 90 Edge 100 + 103

4767
Center 87 Edge 101 + 101

4768
Center 90 Edge 101 + 101

4769 –
Center 87 Edge 98 + 100

4770 Group 5 models -
Cups polished inside with
Emery paper to get rid of lumpiness
scale off — Chg 15 hours 200
developing 100

4771 Dup - of 4770

4772 "

4773 "

4774 "

	#1	2	3	4	5		#5a	5a
4779	495	497	513	507	510	Endurance		
78	497	505	517	512	515			
77	499	501	517	510	515		553	497
76	496	506	513	510	512		557	492
75	501	507	517	512	515		553	505
	497	505	515	510				

	60		112	113
4777	498	Endurance	507	492
76	490		510	495
75	498		507	492

107

4775 group of 5 Reg Ni
Same as 4770 Except rounded
perforations inside & Cement
with Emery paper
Center 93 Edge 105+103

4776 Dup of 6 4775
Center 93 Edge 107+104

4777 " Center 91 Edge 107+104

4778 " Center 89 Edge 102+102

4779 " Center 93 Edge 101+103

4781 B	1040
81 a	1046
80 B	580
80 a	577

Done

4780 (a + b) = Fe exp #42 R.A.

(a) (b)

S.L. # 3788 & 3789.

4. gram Fe

Run with 2 - 3.5 Reg Li.

1st Ch 20 lin at 200 run 200

2d " 15 " 200 " 200

3d " 15 " " " 200

4th " 15 " 200 " 500

5 " 15 " " " 500

6 " 15 " " " 500

7 " 15 " " " 200

8 " 15 " " " 200

4781 (a & b) = Fe exp #44 R.A.

(a) (b)

S.L. No = 3790 + 3791.

4.00 gram Fe run with 2 - 3.5 Li in ch 4 run same as 4780.

21% K.O.N.

4786	0	0
85	0	0
84	0	0
83	0	0
82	0	0

Solution 1:1

No current check for true – Come right down to 0.

4782. 5 Reg Ni in Methyl Nitrate Alcohol Containing 21% of CP KOH discussed charge 15 hours 200 rate discharge 100, Throw the iron away after through with test

Center 95 Edge 110 + 109

4783 Duplicate of 4782

Center 101 Edge 110 + 110

4784 "

Center 100 Edge 109 + 112

4785 "

Center 102 Edge 112 + 113

4786 "

Center 101 Edge 112 + 113

	S	
4791	sc	1
90	"	0
89	"	0
88	"	0
87	"	1
		1

Cutout

No same results per Number. Same model down to 0.

$\frac{3.26}{3.32}$
$\frac{3.3}{}$

Done

4787 – 5 Rig Nickels in 33% Solution of Formate of Potassium, Elec 15 hours 200 ratio also 100
Center 91 Edge 103 & 105

4788 Dup of 4787
Center 96 Edge 99 & 100

4789 "
Center 90 Edge 102 & 104

4790 "
Center 90 Edge 102 & 104

4791 "
Center 92 Edge 103 & 105

4796	547	567	560	567	550	553	563
95	556	567	556	562	549	551	573
94	550	564	553	562	545	549	522
93	560	572	563	567	552	555	573
92	556	572	565	567	556	558	575
	553	568	558	563	550	553	561.

4796	555	565	555	562
95	559	549	552	555
94	552	547	547	555
93	555	552	555	560
92	555	560	563	565
	555	554		

5 | 2842
568

Weight using 9 grams
Sodium Carbonate
Dupo Monroe
64
5-5-3

4 | 2787
557

4 | 2770
554

4792 group 5 Reg Nichols
to 62 soaked in Grain Alcohol
warm for 6 hours then dried
& put in Reg 21% +
Chlg 15 hours 200 rate dis
116
Center 105 Edge 111+112

4793 Group 6 4792
Center 102 Edge 112+113

4794 "
Center 99 Edge 111+111

4795 "
Center 101 Edge 113+114

4796 "
Center 110 Edge 113+112

4801	554	571	557	565	566	562	558
80	539	560	547	554	556	552	551
4799	555	567	557	566	566	565	564
98	541	557	539	552	557	552	553
97	533	552	535	545	533	544	544
	544	561	547	556	555	553	

4801	547	545	547	547	558
80	538	533	543	543	545
99	551	548	552	542	555
98	537	533	533	543	545
97	528	525	523	528	533
	540				

5)2807
561

5)2722
544

5)2701
540

Overweight no
Cause by Capacity,

4797 – 5 Reg Nicher
Soaked in CP Benzol.
for 6 hours, warm,
then dried & put in 21%
Chg 15 hrs 200 rpm, speed 100
Center 101 Edge 116+110

4798 Reg of 4797
Center 97 Edge 112+109

4799 "
Center 100 Edge 110+110

4800 "
Center 105 Edge 114+117

4801 "
Center 100 Edge 111+112

4806	490	504	505	512	492	500	497
05	497	490	497	493	474	484	480
04	500	492	497	500	478	489	489
03	492	500	504	510	492	497	496
02	519	492	497	500	486	489	489

	59	60
4804	500	511
03	506	517
02	496	507

107

4802 5 Reg Machine 21% which has been heated 180 Fahr 48 hours with 1/2 its bulk of shavings from a side guide rubber fric 2 18 — Then Saline washed as before — Keep RDA from Carbonating by leaving in bottle & filling without inoculation or hot plate drawn Stains, weed about 800 CC of 21% — Chgs 15 h 200 div 100

4803 Center .095 Edge 106-106
Dup of 4802
Center .095 106-106

4804 Center .096" Edge 107-107

4805 Center .094" Edge 101-105

4806 Center .095" Edge 105-104

4811	503	503	508	483	498	487	
10	514	517	515	494	502	442	
9	561	503	508	482	492	488	
8	492	497	500	477	487	482	
7	504	507	510	487	496	492	

Sp Gravity on Cook

	59	60
4809	503	511
08	498	500
07	506	517

107

4807 – 5 Reg 7 hl put in Solution in which (800 cc) 10 Rubber packing rings (Soft) from E 18 has been boiled and that flask down slowly the inlet be in a closed container [illegible] Stopper – 15 hours – Use the Solution in Coffee Cocks – 6 hg 15 h 200 rds 100

4808 Dupl of 4807 105–104 / 107–109

4809 [illegible] 106–107

4810 [illegible] 104–103

4811 [illegible] 108–105

								59	60
4816	512	507	543	533	526	512	5 Rounds on Target	498	509
15	455	452	500	465	443	445			
14	510	506	535	523	512	503		506	517
13	457	466	506	498	488	475			
12	493	493	503	525	512	505		500	508
	485	483	518	509	496	494			

No 7

Dome

4812 5 Rg Nickels —
21% put in stock with [illegible]
1 [illegible] [illegible]
Magnum Hydrogen —
Alloy 15 h 200 dia 100
Center 92 Edge 102 + 104

4813 [illegible] 4812
Center 87 Edge 97 + 98

4814 "
Center 95 Edge 103 + 101

4815 "
Center 91 Edge 102 + 103

4816 "
Center 92 Edge 106 + 104

4821	0	0
20	0	0
19	0	0
18	0	0
17	0	0

Cut out

No curve sheets for these. – Curve right down to 0

Done

4817 5 Reg Nickel Co -
Run in 33% Borax solution,
Chg 15 hours 200 disch 100
Center 92 Edge 105 + 101

4818 Dupe of 4817
Center 91 Edge 105 + 102

4819 "
Center 91 Edge 105 + 102

4820 "
Center 91 Edge 101 + 104

4821 "
Center 91 Edge 102 + 102

4826	12	10
25	8	8
24	12	10
23	0	8
22	10	9

Cut out.

Done

4822 5 Reg MeOHs 6-
Run on 33 % Solution of Rhamphate
of ~~[illegible]~~ Potash —
Cd of 15 h 200 rots Cu 100,
Center 91 Edges 104 + 103

4823 Dup of 4822
Center 93 Edges 105 + 106

4824 "
Center 90 Edges 104 + 103

4825 "
Center 91 Edges 102 + 102

4826 "
Center 89 Edges 98 + 102

4831	0
30	0
29	0
28	0
27	0

Cut out,

All Spots here below
Silica – Silica Rods
from Iron Center of Ingots
Difference in Roof
from Eaten –

No cure sheets for these – Cannot
right down to 0.

Done

4827 – 5 Reg Nichols run in
Solution of Water in which is
dissolved 30% of Silicate of
Sodium in order to dissolve at
Chg 15 h 200 rate dissolg 100
Center 92 Edge 103 + 105

4828 Cup of 4827
Center 90 Edge 101 – 101

4829
Center 90 Edge 100 – 8

4830
Center 88 Edge 102 + 101

4831
Center 90 Edge 108 + 105

4836	0	0	Cut out
35	0	0	
34	0	0	
33	0	0	
32	0	0	

No cure results from this — cane might damage to 0.

Done

4832 5 Reg Nicholas rim in 33% solution of acetate of Potash or Soda —
Chg 15 hours 200 closing 100
Center 90 Edge 101 + 101

4833 10 up 6 4832
Center 92 Edge 104 + 105

4834 "
Center 92 Edge 102 + 111

4835 "
Center 93 Edge 102 + 101

4836 "
Center 91 Edge 101 + 101

4841	517	533	548	558	450 5	551
40	528	555	563	570	474 3	566
39	530	553	563	573	557	567
38	525	556	563	567	553	562
37	520	550	548	562	565	557
	524	549	557	566		561

			60	61
4841	546	Ex Quad. [illegible]		
40	554		561	570
39	565		560	567
38	552		558	563
37	548			
	553			

Center [illegible] Edge [illegible]

Center [illegible] Edge [illegible]

Thick more than 3.2 in
See Caliper 100 [illegible]

4837. 5 Reg Nickels to 62 changed 15 hours at 200 rate & given to Edison Co. The changing — He will put them in charged [illegible] water until every trace of Metal comes out then they are to be put back in 21% [illegible] charged again 15 hours 200 rate & [illegible] 100 rate
Center 100 Edge 112 + 112

4838 Dup of 4837
Center 97 Edge 108 + 110

4839 "
Center 100 Edge 111 + 113

4840 "
Center 102 Edge [illegible]

4841 "
Center 101 Edge 112 + 114

4846	492	420	492	411	400			
45	419	486	507	475	478			
44	489	491	512	503	489			
43	492	483	507	494	487			
42	481	489	500	493	482			
	479	474	492	479				

4842 5 Reg Nickels
Reversed perforations, pressure
flat to crimp — clad rim
the smooth convex die or
the corrugating die - 100 atmos.
Charge 21% 15 hours 200 rate dis 100
Center 92 Edge 92+91

4843 Dup of 4842
Center 93 Edge 93+92

4844 "
Center 92 Edge 91+91

4845 "
Center 93. Edge 93+92

4846 "
Center 92 Edge 92-91

4851	511	514	545	540	523	523	50	Rad
50	505	512	533	532	518	517	532	
49	511	512	533	533	533	507	530	
48	505	512	452	533	535	523	513	
47	492	490	519	533	520	500	515	
	505	508	516	534			522	

	60	61
4850	514	519
49	512	519
48	513	517

4/209/52

"

No 7

4847 - 5 Reg Nickels
Rounded perforations, but
sent to phonograph 10 days
said placed Rosavier —
Charge 15 hours 200 rate due 100
Center 94 Edge 108 + 109

4848 Duplicate 4847
Center 93 Edge 107 + 107

4849 "
Center 95 Edge 107 + 108

4850 "
Center 94 Edge 107 + 107

4851 "
Center 93 Edge 105 + 105

4855½	493	497	503	497	510	500	Red
55	492	497	503	492	511	500	8
54	493	498	508	500	513	517	Green
53	483	493	493	485	497	492	@
52	492	433	504	487	497	493	25

	59	60
4855½	527	525
55	509	507
54	522	520

N07

4852 5 Reg ni Reversed Perforations run in a 21% Solution 800 cc in bottle put in hot place 24 hours Containing 1/3 its bulk of ~~[illegible]~~ separations from Green Redgz which are ready to go into cells or taken from an E 18 old cell over here — break them up in pieces 1/8 or better 1/16 ⅜ long — molded Then file the Green Cells from this Solution —
Chg 15 hours 200 rate chg 100

	.094	Edge	106-104
4853	Dup of 4852		
4854	.094		107-105
	.093	"	104-104
4855	.094	"	109-105
4855½	.091	"	105-104

4855	507	499	449			
57	500	495	503	514	517	517
58	499	495	503	531	517	517
57	496	494	507	483	518	510
56	489	496	493	487	498	490

See Book No 5

	59	60
4859	505	512
58	498	504
57	500	510

No 7

4856 - Dup of 4852 Remarking
Except the 80 pcs of 21
has 1/3 its back of the
new separations Cut from
0 heets -

Chg 15 hours 200 clusCharge 100

4857 Dup of 4856 -
Center .092 Edge 104-105
Center .092 Edge 105-106

4858 Center .093" Edge 103-106

4859 Center .097" Edge 106-105

4860 Center .0951 Edge 106-106

4865	493	489	504	533	519	514	See Reverse Side
64	~~500~~	~~492~~	~~513~~	~~550~~	~~532~~	~~528~~	
63	~~485~~	~~493~~	~~498~~	~~537~~	~~515~~	~~512~~	
62	~~492~~	500	503	~~533~~	517	~~514~~	
61	495	503	505	~~538~~	517	~~516~~	

	59	60
4864	570	532
63	505	512
62	500	508

NO 7

4861 Group 5 ne Reversed perforations
Dup of 4852 Except 800 dc
21 hrs 1/3 th bulk of fine shrunk
from the thin sheet pulk Gas
used one order of Gas
Chgs 15 hours 200 dcs 100

4862 Center .094 Edge 105-106
Dup of 4861
Center .098 Edge 105-104

4863 Center .093 Edge 105-105

4864 Center .097 Edge 104-105

4865 Center .095 Edge 107-103

4866 – 5 nickels made with the short cups — 2/3rds the length of Regs — Dies are at Glen Ridge or Silver Lake, see what they will hold if mix in Carbider about 85/100s in the Center — Make spherical grids —
Chge 200 rolls 15 hours dis 100.

4867 Same as 4866

4868 "

4869 "

4870 "

4870	508					57	58
69	490						
74	479	505	506	505	57 Runson end	497	508
73	413	487	457	433		473	483
72	461	433	426	417			
71		444	493	496		452	494
	470	479	478	475			

Cutthroat
May 12th 1905

4871 — get Rogers make
100 Cups unfinished,
from plain blank no perforations
Then get a very fine chisel 4-
Cut slots across 1/16 apart
Thus -

Center 82 [illegible] 216 Edge 93 + 88

Press a Crimp only with Smooth
Concave die — Have them Nickel
Plated at Shop [illegible]
Chg 21% [illegible] 100

4872 Dup of 4871
Center 82 Edge 101 + 104

4873 "
Center 80 Edge 99 + 90

4874 "
Center 81 Edge 92 + 92

~~4875~~ Only four

4880	506	512	513	510	512	492	507
79	498	507	501	504	507	482	515
78	500	503	505	504	512	488	526
77	508	518	517	515	522	498	538
76	508	518	520	517	523	496	536
	504	511	512	510	515	491	

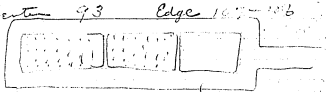
4880	505	503	500	Sq. Quinn on Back	59	60
79	498	500	490			
78	500	507	495		499	497
77	509	523	505		497	506
76	507	523	500	Sq.	497	505

NO

5 | 2456
491

4876 — 5 nickels made up of 3 sections use received perforations — use 1070 milligrams in each section this

Center 93 Edge 107 — 106



bend the cups up by hand —
Run 21% Ke 9 by Cl 9 15 hour 200 rate directly 100 —

4877 Dup of 4876
Center 95 — Edge 106 + 103

4878 "
Center 93 Edge 104 + 106

4879 "
Center 94 Edge 107 + 104

4880 "
Center 96 Edge 108 + 106

4885	433	491	502	300	367	453	510	52 Queen on Bed
84	433	490	425	300	482	457	500	
83	428	494	485	457	491	400	483	
82	417	490	460	484	433	467	500	
81	432	495	510	473	77	320	457	
	428	493	476	383	295	419	490	

	60	61
4885	519	506
84	511	506
82	527	524

Donne

4881 – 5 Reg Nickels Reverse
Perforations, 2 grams
Gelatin dissolved in 21 c.c.
ROH, for 2 cock cell –
Cling 15 hour 200 rate dia. 100
Thread unwinding when it was wet with
run – Cath. 93 Edge 102 & 104

4882 Dupe of 4881
Cathode 93 Edge 101 & 105

4883 "
Cathode 91 Edge 102 & 103

4884 "
Cathode 90 Edge 102 & 102

4885 "
Cathode 93 Edge 101 & 103

4890	491	452	500	462	452	457		
89	491	453	501	466	453	467		
88	493	448	500	459	443	466		
87	493	457	499	455	452	450		
86	493	457	500	453	443	453		
	492	453	500	459				

4886 – 5 nickels dry mix use no water, powder up green hydrate so all pass 100 mesh use 8+2 of the 2 parts aggregate use one part recovered put this in first then one part [illegible] roll well 3:2 Reversed perforations Cups used

Charge 15 hours 200 rate dis 100.

Center 99 Edge 110+

4887 Dup of 4886-

Center 100 Edge 111+-110

4888 "

Center 99 Edge 110+-110

4889 "

Center 100 Edge [illegible]

4890 "

Center 96 Edge [illegible]-109

4895	442	427	423	432				
94	442	427	425	428				
93	437	428	427	431				
92	436	423	423	429				
91	457	425	417	424				
	434	426						

4891 – Same as 4886 Except
use only Coarse graphite &
only mix it a short time, ~~the~~ The
nickel hydroxide must be
powdered 100 mesh fine —
Chg 21½ hours 200 dis 100
Use revised perforations.
Center 99 Edge 109 + 121

4892 Recip of 4891
Center 100 Edge 100 + 111

4893 "
Center 100 Edge 111 + 110

4894 "
Center 102 Edge 112 + 110

4895 "
Center 100 Edge 111 + 109

						57	58
4900	478	473	483	480	5 @ 2 wks	467	482
4899	472	458	450	457			
98	477	483	484	482		478	493
97	472	458	447	457			
96	470	473	440	474		477	483

NO 7

4896 5 Reg Nickels 3:2
put in old ℂ Cups 1250 holes
21%
Chgs 15 hours 200 dw 100

Center .083 Edge .096–.099

4897 Cup of 4896
Center .088 Edge .097–.097

4898 Center .089 Edge .098–.099

4899 Center .084 Edge .093–.096

4900 Center .095 Edge .104–.103

						57	58
4905	478	487	492	475			
4	483	493	497	492			
3	478	488	492	481		480	492
2	477	488	492	484		487	492
1	483	487	487	483		477	487

5 Quarter in Bend

No 7

4901 5 Reg Ni - put in
Reversed perforations cold C
Cup 2 1250 Pokes 21/0
3.2
Chg 15 hours 200 discharge 100

Center .094 Edge .102 - .105

4902 Dupe of 4901
Center .096 Edge .106 - .107

4903 Center .097 Edge .106 - .107

4904 Center .094 Edge .103 - .102

4905 Center .095 Edge .105 - .104

4910	485	495	480	477		57	58
09	485	497	492	484		497	496
8	487	500	497	492		504	509
7	48[illegible]	500	497	491		497	505
6	487	618	498	458			

Sw Bowers on Bell

No 7

4906 5 Nickels put in
5000 hole Cups 3.2 21%
Chg 15 hours 200 rate dis 100

bwin. .094 Edge .103 – .106

4907 Sup 6 4906

bwin. .093 Edge .104 – .104

4908 bwin. .091 Edge .101 – .103

4909 bwin. .086 Edge .100 – .098

4910 bwin. .094 Edge .104 – .106

						57	58
4915	458	487	487	473	5½ Brown Red		
14	457	500	482	494		500	515
13	473	485	483	470			
12	480	492	487	477		480	495
11	473	486	487	481		480	493

4911 – 5 Nickels put in
5000 hole cup, Reversed
perforations 3.2
21%
Chg 15 hours 200 ml div 1.0
Center .089 Edge .101–.102

4912 Cup of 4911
Center .094 Edge .103–.104

4913 Center .089 Edge .098–.099

4914 Center .093 Edge .103–.103

4915 Center .092 Edge .101–.102

4916 — 364 · 396 394 394 392 385 —

4916 409 366 301

Done

4916 The old 157 packet that was buried on the side, the mix is to be examined by Salmon under Microscope then Taken out dried well & put in new cup with Revised packing —
Chgd 15 hours 200 o'clock 10 0
21 % —

C 87 C 94 + 97

4609 is to be done as required

4917a | 47
4917B | 48

4918B | 333

Done

4917 a & b – 4.9 gm Fe bin.
= Rea Fe #40

a = 3795 S.L. cal. = 72 – 88-8%
b = 3794 S.L. " = 75 – 88-87
Assemble each with 3.5 gm Rug bin.
Cl & run rug in 2170.

1st run.	ch 20 bus.	@ 200	run	200
2nd "	"	15 "	@ "	"	200
3rd "	"	15 "	@ "	"	"
4th "	"	15 "	@ "	"	500
5th "	"	"	"	"	"	500
6th "	"	"	"	"	"	500
7th "	"	"	"	"	"	500

4915 a & b –
c 4.9 gm #38 Fe. Rea.

a = 3792 S.L. cal = 69-84-83.
b = 3793 S.L. " = 67-85-85.

charge & run same as 4917.

4923	509	525	510	513	522	528	
22	523	525	522	517	520	529	
21	508	517	505	505	513	520	
20	505	507	497	500	500	514	
19	500	510	502	497	503	513	
	509	518.8	507	505	511	521	

					62	63		
4923	510	519	512	52 Same as end				
22	508	505	513		514	525		
21	502	499	500		498	508		
20	495	493	499		506	523		
19	490	499	510					
	501	505	504					

5)2526.
504

5)2594.
518.6

5)2545
509

Done

4919 Group of 10 Irons
old irons will do
made anode in 33% 100-cate
15 hours then assemble
with reg nickel
Charge 15 hours 200 cate
discharge 10 21%
Center 88 Edge 100 & 100

4920 Group of 119
Center 88 Edge 100 + 103

4921 " "
Center 88 Edge 98 + 102

4922 " "
Center 90 Edge 102 + 102

4923 " "
Center 19 Edge 103 & 103

4928	487	512	506	497	498	525	517	508
27	486	514	503	505	497	525	512	507
26	486	513	505	497	497	525	512	508
25	486	510	503	505	497	525	517	505
24	486	510	503	505	493	527	483	485
	486	512	505	502	490	513	508	

4928	508	500	497	Sulfate	64	65
27	505	500	498		505	518
26	508	500	498	Sulfate	500	516
25	510	500	495		506	520
24	500	483	468			

Done

4924 group Reg Ni Reversed perforations; 2½% KOH, put in the little Cell. 2 grams mid Sulphate of Potash. Charge 15 hours 200 div 100

Center 90 Sulfate 102 & 103

4925 Dup of 4924

Center 90 Sulfate 99 + 101

4926

Center 91 Sulfate 102 + 103

4927

Center 90 Sulfate 101 + 102

4928

Center 91 Sulfate 102 + 103

4933	392	442	432	433	441	425	427	421
32	395	432	412	400	405	390	387	388
31	383	436	428	432	443	425	421	428
30	365	420	414	412	423	408	407	409
29	300	322	290	254	271	267	262	267
	367	411	397	383	398	383	382	383

Dmc

4929 – group of 5 nickels with Dups that are compared by a Dia. that only works on the Enlarger. 100 atmos –
Charge 21% 15 hours 200 rate dis 100

4930 Dup of 4929

4931 Chlorination Gas

4932

4933.

4936	463	480	495	467	463	495	5% Burns on Back
37	463	481	493	292	300	367	
36	[illegible]	478	[illegible]	467	453	467	
35	[illegible]	494	[illegible]	[illegible]	464	495	
34	465	490	[illegible]	[illegible]	464	495	
	1463	486	438	439	425	464	

	59	60
4938	499	507
36	493	500
34	498	507

Dons

4934 5 Reg nickels reversed perforations, 21% KOH Containing 5 grammes of CYANATE of Potash (not cyanide)
Charge 15 hours 200 chs 100
Center 90 Edge 101 + 102

4935 Dup of 4934
Center Edge 104 + 105

4936
Center 89 Edge 102 + 103

4937
Center 91 Edge 103 + 103

4938
Center 94 Edge 101 + 105

4993	27	24	25
92	18	17	24
41	26	17	17
40	27	16	17
39	22	17	20

Cut out

Dominion Gravure Co

4939 5 Rzq nickels reversed perforations. Electrolyte 20% Solution of CYANATE of Potassium [not cyanide]
Chg 15 hours 200 dm 100
Cond 92 Edge 103 + 105.

4940 Dup of 4939
Cond 92 Edge 102 + 104

4941 "
Cond 93 " Edge 100 & 105

4942 "
Cond 94 " Edge 101 + 102.

4943 "
Cond 93 " Edge 101 104

4948	455	491	500	502	483	507		59
47	455	491	507	502	467	497		505
46	[illegible]	487	507	502	486	465		467
45	457	469	508	502	493	487	52 Summed	500
44	467	500	510	502	493	507		
	457	492	506	502	485	494		

	60
4948	521
47	485
46	518

Done

4944 5 Rzq Nickels in 21% (Rumford)
Containing 3 grammes of sugar
Chg 15 hours 200 rate dis 100
Cycle 91 Temp 103 & 103

4945 Dup of 4944
Cycle 91 Temp 102 & 103

4946 " "
Cycle 93 Temp 102 & 105

4947 " "
Cycle 94 Temp 103 & 105

4948 " "
Cycle 92 Temp 102 & 104

4953	480	512	518	503	494	500		
52	480	512	511	503	491	505		
51	493	500	509	503	489	491		
50	477	508	513	498	496	500		
4949	[illegible]	510	515	503	500	507		
	477	508	514	502	494	502		

Done

4949 5 Reg nickels Reversed perf-
21% Containing 3 grammes Tartaric Potash
Chg 15 hours 200 dis 100
[illegible] 88 Eq 101 + 101

4950 Dup of 4949
Cond [illegible] 91 [illegible] 102 + 102

4951 "
Cond [illegible] [illegible] 103 + 103

4952 "
Cond [illegible] 88 [illegible] 102 + 102

4953 "
Cond [illegible] 94 [illegible] 102 + 102

4958	400	390	367	367	367	367	344
57	330	293	271	277	269	279	250
56	270	258	230	267	221	230	200
55	300	258	233	257	229	240	200
54	350	323	303	314	300	310	291
	334	304	282	298	277	285	257
					63	64	

4958	353	247	345	Dup of 4957	233	300	
7	240	249	247		190	185	
6	200	185	193				
5	257	242	214				
4	290	245	240		238	267	
	268	243	238				

Done Concluded about this

4954 - 5 nickels. Reversed perforations.
Cups made with new 5 to inch corrugations
No smooth die used. but only one pressure
used & that with new die.
Dress. 5 — atmospheres. 21% Clay Fire 200 die 100
Center 112 116

4955 Dup of 4954
Center 119 Edge 114 + 111

4956
Center 116 Edge 110 + 110

4957
Center 114 Edge 110 + 110

4958
Center 114 109 + 109

4963	433	420	416	407	412	[illegible]	488
62	362	355	343	323	322	[illegible]	293
61	443	429	[illegible]	423	432	424	408
60	448	432	[illegible]	420	425	417	400
4959	417	345	306	307	308	304	259
	424	396	[illegible]	376	[illegible]	371	369

4963	392	397	380	5% Gum in Ether	S.C.	333	
62	292	267	282				
61	430	419	400		382	392	
60	S.C.	400	392		382	392	
59	267	267	260				
	345	354	341				

Dens

4959 Dup of 4954 with 10 atmospheres

Centr. [illegible] Edge. [illegible] 116

4960 Dup of 4959

Centr. 115 Edge [illegible] 110 + 114

4961

[illegible] [illegible] [illegible]

4962

113 [illegible] 112 & 115

4963

112 [illegible] [illegible]

4968	482	463	483	479	477	477	461
67	482	463	485	480	477	482	463
66	277	287	262	125	56	33	23
65	430	419	426	420	416	421	400
64	451	455	462	452	451	450	466
	444	447	427	391	453		447

4968	462	467	458		63 433	64 452		
67	463	467	459		489	452		
66	261	225	222					
65	409	409	398					
64	433	438	428	Same on Each	422	433		
	410	445	435	60				

Done

4964 Dup of 4954
but with 20 atmospheres
Center [illegible] 105 + 167

4965 Dup of 4964
Center [illegible] 155 + 107

4966 " 1
114 [illegible]

4967 " 1
[illegible] 114 [illegible] 105 + 132

4968 " 1
[illegible] 113 114 [illegible]

4973	490	488	500	497	500	497	486
72	490	415	393	377	348	333	320
71	488	487	477	492	495	463	473
70	506	494	502	500	501	505	492
69	447	415	417	404	400	404	388
	477	459	452	63	448	44	437

4973	475	464	487	Glass and Scale	467	492	
72	315	313	310				
71	477	464	473		467	488	
70	498	500	492		492	509	
69	422	392	380				
	437	434	425				

Done

4969 Dup of 4954
Bad with 40 atmospheres
Center 114 Edge 110 & 111

4970 Dup of 4954
Center 113 Edge 108 & 109

4971 "
Center 115 Edge 110 & 105

4972 "
Center 112 Edge 106 & 107

4973 "
Center 114 Edge 110 & 112

4977	503	507	513	508	511	513	498
76	513	488	500	489	492	497	498
75½	457	439	412	440	453	433	463
75	480	484	481	477	472	472	463
74	458	450	[illegible]	428	422	416	408
	482	473	476	468			466

					63	64	
4977	500	507	497	52 Cumulative	499	502	
76	492	490	482		483	500	
75½	457	428	420				
75	463	478	457				
74	400	465	393		398	420	
	454	463	450				

$\frac{1}{2}$ 2336
466

Dup

4974 Dup of 4954
but with 80 atmosphere
Center 110 Edge 108+108

4975 Dup of 4974
Center 110 Edge 110+108

4975½ "
Center " Edge 105+107

4976 "
Center 110 Edge 107+108

4977 "
Center 100 Edge 105+108

4982	507	496	513	512	512	511	507
81	498	496	510	508	508	506	498
80	[illegible]	513	527	521	525	527	513
79	[illegible]	518	531	527	529	532	528
78	[illegible]	487	475	494	496	502	488
	[illegible]	502	515	512	514	516	507

					63	64
4982-4	505	517	503	Same	512	514
81	504	524	498		500	520
80	513	524	513		516	533
79	518	527	517			
78	490	497	487	5		
	506	515	503			

$5\overline{)2562}$ 512

$5\overline{)2503}$ 4 501

Done

4978 Dup of 4954
but with 160 atmospheres
Center 102 Edge 100 & 101

4979 Dup of 4978
Center 102 Edge 101 & 101

4980 "
Center 104 Edge 102 & 103

4981 "
Center 102 Edge 100 & 101

4982 "
Center 102 Edge 101 & 102

4987	467	497	499	503	484	496	Blank	59
86	474	508	512	503	497	503		497
85	465	497	506	504	492	500		523
84	472	499	506	504	492	500		515
83	473	500	506	503	484	497		
	470	500	506	503	491	499		

	60		
4987	513		
86	540		
84	527		

h

Lune

4983 5 Reg Ni Reserved seal
21% Continuity 5 grams Citrate Potash
Cly 15 h 200 dis 100 –
Centre 92 Cap. 102 + 103

4984 Dup of 4983
Centre 93 Cap 104 + 104

4985 "
Centre 92 Cap 101 + 103

4986 "
Centre 93 Cap 101 + 102

4987 "
Centre 93 Cap 102 + 104

4988

New 5 Corrugation ~~to~~ each die — made 5 grids at different pressure & weighed them then baked in water hot for 1/2 hour — following results

Atmos	orig weight	weight with water	difference	%
5	14005	14960	965	23
10	14205	15120	915	22.2
40	13765	14570	805	20%
60	14275	15075	800	20%
120	13670	14400	730	18%

	Calliper
5	112
10	112
40	114
60	113
120	108

Note should have been put in a Vacuum to get gas out.

4989	834
4990	47

4989

S.L. #3795 Cat 73-[illegible]
4 gm Fe #41 2 a.
Assemble with 2 - 3.5 gm Ni Rug.
Ch & run reg oz on Fe.
i.e. 2 mm at 200
3 " " 500
2 " " 200

4990

3[illegible] S.L. 73-83-70
Ref of 4989.
1 run same.

4991	500
4992	434

4991

S.L. #3796 Oct 64-87-86
4 gm Fe #43 R.A.
Cl & um as reg Fe same as #3797

4992

S.L. #3797 Oct 67-85-86
Def of 4991 Cl & um same.

4997	324	193	148	139	92	89	76	
96	322	213	167	135	105	99	92	
95	323	230	157	132	95	90	93	
94	323	183	155	65	75	47	42	
93	255	119	73	52	35	38	37	
	309	179	135	103	74	58	68	

Only the Solution was put 2nd Run

4997	73	467	467	463	467	71	262	200
96	85	463	467	433	488	321	193	
95	82	420	73	373	343	377	367	92
94	44	468	467	463	469	498	267	220
93	36	473	465	465	578	526	320	265
	64	447	467	439	461	458	243	196

Wood

After the Run 2 from Reg put in 1

4993 group is now new in 4 72

but old Solution from 4993 group

to see if 1st Nickel Exhausted

see the aluminum

4997	535	541	422	137	560	555	573	
96	556	521	233	133	567	562	584	
95	533	467	367	161	562	562	587	
94	538	532	50	155	567	565	585	
93	538	596	427	161	582	567	588	
	16	7						

Line

4993 - 5 Reg Nickels

21% KOH, with 500 Milligrammes Metallic aluminum dissolved in liquid in little cell, Reg items —

Chg 15 hours 200 dm 100

Center	95	Edge	103 + 104
New N.	91		103 + 103
3rd N.	93		101 – 103

4994

Center	91	Edge	100 + 102
	92		107
	93		102 – 103

4995 —

Center	89	Edge	98 + 99
	92		102 + 103
	93		102 – 104

4996

Center	58	Edge	99 + 101
	95		107
	93		104 – 103

4997 Center 89 Edge 100 + 101

72	577	580	584	597	578	593		104 + 105
73	586	590	590	600	581	585		102 – 103
50	574	595	574	600	547	547		102 – 104
60	588	597	587	605	564	585		
76	592	567	593	600	584	593		

5002	380	268	183	152	109	102
01	368	266	183	140	150	99
00	353	250	170	140	102	99
4999	368	250	175	175	110	100
98	352	232	135	100	63	45
	367	253	170	140	107	87

5002 to
2nd 4998 - Run again with 3 grams of KCy in the 21% —
Marked 4998A etc

5002	A	462	467	464	263	333	310
01	A	370	378	350	274	283	245
00	A	378	399	390	50	50	150
4998	A	140	225	240	263	66	72
		348	367	362	266		

3rd Change the Solution + put Reg KOH in B

Done
4998 Dup of 4993
Except 250 milligrammes metallic aluminum dissolved in Cell —

Centre 92 Edge 102 + 103

4999 Centre 91 Edge 101 + 104

5000 Centre 90 Edge 101 + 102

5001 Centre 90 Edge 101 + 101

5002 Centre 95 Edge 102 + 104

5007	346	35	255	150	106	106	66	
6	400	35	332	243	192	142	135	
5	407	26	316	242	186	135	120	
4	420		345	245	209	153	122	
3	[illegible]		326	226	155	139	122	
	[illegible]		315	221	176	135	113	

Done

5003 Dup of 4993

Except 125 milligrams Metallic aluminum dissolved in little cell —

Center 91 Cups 100 + 101

5004 Center 92 Cups 100 + 102

5005 Center 93 Cups 103 + 103

5006 Center 90 Cups 100 + 101

5007 Center 89 Cups 100 + 102

512	430	423	360	300	272	220
11	365	333	277	292	353	189
10	444	426	375	332	280	297
9	431	453	372	325	271	273
8	490	449	393	390	323	315
	438	414	355	314	295	259

Done

5008 Dup of 4993
Except 62 milligrammes
Metallic aluminum dissolved
in Cell

Center 97 Edge 107+116

5009
Center 86 Edge 97+97

5010
Center 92 Edge 101+103

5011
Center 90 Edge 103+104

5012
Center 89 Edge 100+100

5017	466	483	447			403		
16	472	498	480	[illegible]	464	455		
15	473	458	429	405	397	395		
14	415	475	453	439	422	414		
13	462	480	449	427	425	410		
	461	479	451	444	420	416		

[illegible] 438

Done

5013 Dup of 9993
Except 31 milligrams
metallic aluminum
dissolved in acid

Center 95 Edge 104+105

5014
Center 92 Edge 102+102

5015
Center 93 Edge 102+102

5016
Center 89 Edge 101+102

5017
Center 90 Edge 100+103

5022	477	497	476	472	467	457	457
21	441	442	435	414	407	400	4[illegible]
20	477	503	[illegible]	488	480	462	4[illegible]
19	488	[illegible]	467	485	[illegible]	[illegible]	4[illegible]
18	[illegible]	500	487	[illegible]	479	464	464
	[illegible]	484	[illegible]	459	4[illegible]	445	

4/18 3 1/2 46 45

5018 Dup of 4993 Dave

Expect 16 milligrams aluminum dissolved in cell

Center 89 Edge [illegible]

5019 Center 10 Edge 10 + 105

5020 Center 86 Edge 101 + 102

5021 Center 89 Edge [illegible] + 102

5022 Center 46 Edge 47 + 47

5007	[illegible]	514	505	507	505	498		
[illegible]	[illegible]	513	505	507	505	499		
[illegible]	[illegible]	525	510	513	512	508		
[illegible]	[illegible]	517	506	510	505	500	508	
23	[illegible]	524	505	512	511	508	508	
	1166	519	507	508	507	502	504	

5123 / 507

	Mg	Cu
5[illegible]	506	509
[illegible]	[illegible]	364
[illegible]	[illegible]	391
[illegible]	[illegible]	523
[illegible]	[illegible]	461
[illegible]	[illegible]	457
[illegible]	[illegible]	456

Done

5023 Dup of 4993

Except 8 milligrammes Aluminum dissolved in Cell.

Centr 90 Solpt [illegible]

5024 Centr 90 Solpt [illegible]

5025 Centr 90 Solpt [illegible]

5026 Centr 90 Solpt [illegible]

5027 Centr 90 Solpt 102 & 103

5032	407	457	486	491	505	512	Burn in Bed
31	402	443	477	473	499	500	
30	407	448	485	490	502	507	
29	387	442	463	453	500	514	
28	383	437	471	465	494	500	
	397	450	481	481	460	506	

	59	60
5030	492	500
29	507	527
28	492	513

Dine Reversed Scarf

5028 5 Rep Mi with 21 p/o
Containing 12 gin [illegible] of Flowers
Chg 15 hours 200 dur 100
Center 91 Edge 100 + 102

5029
Center 91 Edge [illegible]

5030
Center 91 Edge 103 + 105

5031
Center 92 Edge 103 + 104

5032
Center 92 Edge 102 + 104

5037	464	458	463	457	467	477	462	
36	500	500	505	498	509	512	496	
35	503	503	510	498	515	517	493	
34	486	490	493	491	499	500	483	
33	505	510	516	503	521	518	497	Sq. Roots on Sides
	492	492	497	499	502	505		

	60	61
5035	492	506
34	478	492
33	491	505

Line — Reversed perforations

5033 – 5 Rg Nicholas, 21½

The Solution [illegible] 2 [illegible]

following [illegible]

squares [illegible]

Centre 90 Sides 103 & 104

5034

Centre 90 Sides 101 & 102

5035

Centre 91 Sides 102 & 103

5036

Centre 91 Edges 101 & 102

5037

[illegible] 90 Edges 101 & 102

Inventory

5042	102	262	353	419	433	398	
41	196	315	383	432	431	463	
40	112	255	320	395	350	433	
39	110	279	343	415	423	440	
38	196	323	387	440	445	467	
	143	287	357	431	422	5	
	59	60					
5041	422	445					
40	395	428					
38	423	443					

52 Rows on hand

Solution Alkali Incorporated
" Fire Clay "

5038
5039

5040
5041
5042

Done Reversed perforations

5038. 5 Ply plate 21%
Containing 2 grams [illegible]
Loaf [illegible]
[illegible] 15 [illegible]
Center 96 Edge 100 – 103

5039
Center 92 Edge 103 + 105

5040
Center 91 Edge – 104 + 101

5041
Center 91 Edge – 101 + 101

5042
Center 96 Edge 105 + 106

5047	440	475	472	520	482	482	Blows on Ends
46	433	470	463	484	470	477	
45	452	489	485	475	490	490	
44	458	491	482	494	495	492	
43	437	471	462	487	470	475	
	444	479	473	493	479	483	

	59	60
5045	515	520
44	521	523
43	498	500

Done Reversed pay

5043 - 5 Reg Nickel 217

Center 89 Edge 100 + 102

5044

Center 95 Edge 106 + 106

5045

Center 92 Edge 103 + 104

5046

Center 91 Edge 103 + 103

5047

Center 91 Edge 104 + 103

5052	490	498	513	500	498	505	500	Ended
51	487	494	507	492	492	497	498	
50	487	491	508	508	493	499	500	Beginning
49	474	487	489	483	480	487	492	
48	467	487	490	484	450	482	486	
	481	492	501	493	490	494	494	

	60	61
5052	506	510
51	498	498
50	506	513

Done Recovered per formulas

5048 5 Reg Ni. with 21% Containing 3 grms precipitated (fresh) Carbonate of Nickel
Chg 15 hours 200 note dec 100
Center 93 Elgin 134 + 134

5049
Center 91 Elgin 101 + 100

5050
Center 91 Elgin 101 + 102

5051
Center 91 Elgin 102 + 103

5052
Center 92 Elgin 102 + 104

5057	494	503	512	508	506	500	500
56	494	503	512	512	507	497	500
55	485	474	485	487	477	492	483
54	493	506	517	514	507	500	500
53	492	500	508	507	500	497	500
	487	497	507	505	499		

					63	64
5057	500	510	500	52 Burn on Bench	495	497
56	531	512	500		493	493
55	498	480	468			
54	531	514	507		492	495
53	531	513	497			

Done Reversed polarities

5053. 5 Reg Nickels with 21% Containing 2 grammes of freshly precipitated Carbonate Barium —
Chg 15 hours 200 dro 100
Center 91 Edge 103+101

5054
Center 92 Edge 105+105

5055
Center 91 Edge 102+103

5056
Center 95 Edge 105+104

5057
Center 92 Edge 103+104

5062	483	486	493	492	489	495	492
61	533	507	558	562	557	547	550
60	533	547	554	558	555	549	560
59	533	543	552	546	545	533	550
58	540	551	561	563	556	550	560
		522	529	543	544	540	535	542

					63	64
5062	513	495	485	So Quinn on end	494	496
61	562	514	[illegible]			
60	577	538	[illegible]		550	552
59	556	545	553		526	523
58	519	~~510~~	500			
		546	528	522		

By Cathy's my guess

Reversed 4 on 5

5058 5 Rg Nickels with 21%
with 2 grammes fresh
precipitated Calcinated Magnesia
Chg 15 hours 200, dis 100
Center 99 Edges 112 + 112

5059
Center 99 [illegible] 113

5060
Center 100 [illegible] 112 + 112

5061
Center 97 [illegible] 110

5062
Center 92 [illegible] 106 + 106

4812. is duplicate 1 gram Mg

5067	483	448	505	500	492	498	498	
66	482	473	505	499	488	495	498	
65	482	481	500	499	490	497	498	
64	485	484	513	492	495	505	503	
63	495	472	482	467	467	467	467	5% Glycerin 80 Ethyl
	477	459	501	491	486			

	60	61
5066	483	492
65	497	511
64	502	514

Dure Reversed perforation

5063 5 Reg Nickels with 21% Containing 2 grammes Magnesia Hydroxide Chg 15 hours 200 rate dev 100

Center 97 Edges 103 & 102

5064

Center 91 Edges 104 & 101

5065

Center 95 Edges [illegible]

5066

Center 93 Edges [illegible]

5067

Center 90 Edges [illegible]

5072	384	265	192	163
71	392	270	192	145
70	357	243	183	133
69	367	265	187	132
68	387	277	200	145
	377	264	191	143

5 | 1887
377

This shows Iodides are bad without Mercury

Done Reversed Carbonate

5068 5 Regular Mickels
with Irons that have no
Mercury in them — 21% use new jar tops
Containing 3 grammes of
Iodide of Sodium —
Chg 15 hours 200 dis 100
Center 98 Edge 103 + 105

5069
Center 99 Edge [illegible] + 105

5070
Center 90. Edge 102 + 101

5071
Center 94 Edge 103 + 102

5072
Center 89 Edge 99 + 105

5077	442	387	333	300				
76	438	375	317	275				
75	433	383	318	287				
74	446	450	332	300				
73	422	377	317	276				
	436	394	323	283				

$\frac{2181}{436}$

Done

5073 Dup of ~~5068~~ 5068
Except one gramme of Iodide of Sodium in the 2 l o/o
use nothing that has measing in or has been used

5074 Center 90 Edge 108 + 104

Center 90 Edge 102 + 104

5075 Center 93 Edge [illegible]

5076 Center 92 Edge [illegible]

5077 Center 93 Edge [illegible]

5082	366	233	167	133				
81	367	[illegible]	187	133				
80	377	218	163	130				
79	392	267	228	163				
78	414	267	175	164				
	379	246	182	144				

5) 1896
379

Done

5078 5 Rag Ni with 9 rods that have no mercury in use 21% Centaurium one gram me of aluminum dissolved in it
use everything mercury top, keep mercury
Chg 15 hours 200 dis 100
Center 90 Edge 102 + 105

5079
Center 92 Edge 103 + 105

5080
Center 91 Edge 100 + 102

5081
Center 92 Edge 124 + 126

5082
Center 92 Edge 104 + 105

5087	444	367	314	50				
86	429	367	300	222				
85	437	365	290	223				
84	442	372	314	261				
83	440	365	300	255				
	438	369	303	242				

Dance

5083 — Dup of 5078
Except 1/2 ground aluminum
use new jar etc. Everything new
so as to keep mercury away —
New top —
Crude 91 Edge 101 + 102

5084
Crude 93 Edge 102 + 102

5085
Crude 92 Edge

5086
Crude 90 Edge 101 + 102

5087
Crude 91 Edge 99 + 102

5092	506	517	525	529	518	515	510
91	510	521	533	533	527	518	517
90	500	524	533	541	532	525	528
89	495	477	490	460	455	450	452
88	477	520	530	522	516	515	505
	501	502	514	522	511		

			61	62
5092	503	52 Rows on Ends	507	518
91	517		516	533
90	524		530	532
89	452			
88				
	502			

Done

5088 5 Nickels. big Corrugations
Corrugated 200 atmosphere
21% Chg 15 hours 200 dis 100
Center [illegible] Edges [illegible]

5089
Center 102 Edges 99 + 97

5090
Center 100 Edges 99 + 100

5091
Center 102 Edges 100 + [illegible]

5092
Center [illegible]2 Edges [illegible] + 100

5097	467	500	521	526	519	513
96	493	526	538	542	533	525
95	482	519	532	538	531	523
94	446	464	524	537	531	524
93	467	512	537	544	537	531
	471	504	530	537	530	

5097	517	511	Same as Red	61	62	
96	530	516				
95	526	520		522	533	
94	527	523		524	527	
93	532	528		528	538	
	527	519				

Done

5093 Dup of 5088 21%
Except 250 Schmosphere
Center 102 Edge 98 ~ 100

5094
Center 101 Edge 98 ~ 100

5095
Center 99 Edge 99 ~ 98

5096
Center 101 Edge 99 ~ 101

5097
Center 100 Edge 99 ~ 101

5102	470	507	528	537	522	514	515
01	423	428	452	200		50	500
00	462	506	531	537	530	522	515
5099	337	372	471	540	533	522	525
98	475	521	537	542	533	527	525
	493	467	504	539	530		

5102	512		61	62
01	508			
00	522		519	523
5099	523		518	520
98	525		527	525
	518			

5 | 2590
518

Line

5098 Dup of 5088 [illegible]%
Except 300 Atmospheric
Center 98 Edge 96 + 97

5099
Center 98 Edge 97 + 97

5100
Center [illegible] Edge [illegible] 97

5101
Center 99 Edge 97 + 98

5102
Center 98 Edge 98 + 97

5103 | 393
.04 | 467

5103 Fe.

	C	E
SL # 3800	75	27+96

BQ #45, 4 gm Fe.
assemble with 2 - 3.5 gm Li
cl 200 mm 200 [illegible] 2 mm -
" " " 500 [illegible] 4 hrs [illegible] mm.
" 200 " 200 [illegible] "

5104 Fe.

	C	E
S.L. # 3801	75	90+91

Dup of 5103
cl 1 hrs mm

5107	20	180	155
6	[illegible]	180	204
5	[illegible]	167	167

5105

[illegible] Cal – [illegible]

3.2 mm [illegible] [illegible] 100 – 100, [illegible].
Assemble with 2 charged [illegible].
Run at 100 with the charge.
Then ch [illegible] 100.

5106

Def of 5105 – Cal — 90 – 79 – 90

5107

Def of 5105 Cal — 79 – [illegible] – 90

5112	467	455	466	466
11	400	367	351	380
10	453	429	427	433
9	462	454	437	475
8	467	455	442	467

Done

5108 5 Rzq ni Dry mix
842 — 1 part graphite (recovered)
put in funnel, the recovered
then in the rolling mill
add the 1 ounce graphite —
press with big Carrington
die 490 aluminum & 21%
Chg 15 h 200 dwo 100.

Crucible 101 Sol'g 93+94

5109
Crucible 102 Sol'g 96+97

5110
Crucible 101 Sol'g 93+95

5111
Crucible 101 Sol'g 95+97

5112
Crucible 102 Sol'g 94+95

5117	481	462	467	467
16	475	462	467	467
15	478	462	467	467
14	482	466	467	467
13	487	466	467	487

5113 Dup of 5108
Except 90 column
Center 94 Edge 89 + 89

5114 center 94 Edge 90 + 90

5115 Center 96 Edge 98 + 98

5116 Center 94 Edge 91 + 91

5117 Center 92 Edge 91 + 91

5122	495	471	467	482
21	495	475	467	478
20	502	484	467	477
19	496	484	471	485
18	497	485	471	485

5118 Dup of 5108
Except 160 almos
Center 89 Edge 84 + 85

5119
Center 86 edge 83 + 84

5120
Center 89 Edge 85 + 86

5121
Center [illegible] Edge 83 + 84

5122
Center [illegible] Edge 83 + 83

5127	497	482	479	486
26	498	482	470	486
25	480	472	467	475
24	499	490	477	486
23	502	477	465	475

5123 Dup of 5108
Except 200 atmos
Centre 83 Edge 80 + 81

5124
Centre 87 Edge 83 + 84

5125
Centre 81 Edge 80 + 81

5126
Centre 80 Edge 81 + 82

5127
Centre 87 Edge 83 + 84

5132	501	486	470	483	
31	505	486	470	482	
30	506	467	483	466	
29	479	334	467	475	
28	498	486	483	492	

5128 Dup of 5108

Except 250 alum
Center 88 Edge 81 + 82

5129
Center 85 Edge 80 + 82

5130
Center 85 Edge 78 + 81

5131
Center 82 Edge 78 + 78

5132
Center 81 Edge 77 + 79

5137	473	460	445	470	487			
36	497	491	478	487	492			
35	507	492	479	489	493			
34	507	496	477	487	492			
33	502	496	481	490	492			

5133 Dup. of 5108
except 300 calmos
Center 81 Edge 74+77

5134
Center 81 Edge 77+78

5135
Center 83 Edge 77+78

5136
Center 85 Edge 79+82

5137
Center 82 Edge 77+79

4

432.
430
1290
1728
1857

175
25
875
350
4375

5

175
350

256
20
5120

256
22
512
512
6312

256
25
1280
5120
6400

Ladude old 4477
" new 5073
Al old ½ gr 4993 - 4458 [illegible]
4453 - [illegible]
new 5078

Notebook, N-04-12-14

04-12-14

5138 – 5175

12/14/04

5142	481	497	500	[illegible]
41	459	[illegible]	475	[illegible]
[illegible]	463	[illegible]	477	[illegible]
[illegible]	465	[illegible]	485	[illegible]
[illegible]	477	489	489	[illegible]
	471	485	488	

December 14 1904

5138 5 Reg nickels
21% containing 16 milligrams
[illegible]
Chg 15 H 200 Dec 100
[illegible] 92

5139
Center 45 Edge [illegible]

5140
Center [illegible]

5141
Center [illegible] Edge 112 & 114

5142
Center [illegible] Edge [illegible] & 114

5147	455	435	486	397	358	381	
46	504	513	477	480	462	447	[illegible]
45	495	498		483	461	461	[illegible]
44	519	545		530	521	[illegible]	[illegible]
43	521	552		513	499	481	[illegible]
	489	508		481		461	

of 5138

xcept 2 mlg. ammon. Iodide

Potassium

5144

5145

5146

5147

5152	418	352	287	255	27[illegible]
51	472	458	457	433	421
50	483	500	432	433	325
49	457	391	300	242	183
48	450	422	50	343	50
	458	422	369		313

5148 Dup of 5138
Except 64 milligrammes Iodide
Potassium.
Center 100 [illegible]

5149
Center [illegible]

5150
Center 99 [illegible] 111 + 111

5151
Center [illegible] Edge 107 + 111

5152
Center [illegible] Edge [illegible]

5157	367	298	170
56	504	505	428
55	408	370	300
54	460	475	335
53	413	350	280
	430	313	302

5153 Sup of 5138
Except 125 milgrms Iodide Potassium
Dissolve [illegible]

5154
[illegible] Sol[illegible]

5155
101 [illegible] 110 & 113

5156
103 [illegible] 113 & 113

5157
[illegible] 110 & 112

5162	439	405	311	[illegible]
61	442	407	317	[illegible]
60	439	402	307	[illegible]
59	436	392	288	[illegible]
58	435	[illegible]	[illegible]	[illegible]
	438	404	305	[illegible]

5158 Dup of 5138
Same except 250 milliquanns [illegible]
Denver 92 [illegible]

5159
Denver 93 [illegible] 101 + 105

5160
Denver 92 [illegible] 101 + 105

5161
[illegible] 93 [illegible] 101 + 101

5162
[illegible] 92 [illegible] 101 + 104

5167	395	309	203	14	[illegible]	[illegible]	[illegible]	
66	387	310	206	14	[illegible]	[illegible]	[illegible]	
65	387	303	203	[illegible]	[illegible]	[illegible]	[illegible]	
64	378	300	205	15	[illegible]	[illegible]	[illegible]	
63	391	300	207	15	[illegible]	[illegible]	[illegible]	
	393	306	205				97	

5163 Dup of 5138.
Except 500 Milgrams Iodide Potassium.
Center 91 Edge 102+104

5164
Center 92 Edge 101+104

5165
Center 92 Edge 102+104

5166
Center 89 Edge 99+101

5167
Center 89 Edge 100+103

5172	481	480	487	489
71	487	481	493	493
70		493	477	
69	482	487	482	491
68	477	488		482

5168 5 Regular Nickels
21% with 500 milligrams of Sturnite Potash
got from JWA. Run 15th 200 dia 100

5169 Center .093 Edge .106-.105

5170 Center .099 Edge .104-.106

5171 Center .094 Edge .195-.107

5172 Center .094 Edge .195-.107

5172 Center .095 Edge .107-.106

Water quantity for Comp 5

5177	543	553	546	537	532	[illegible]
76	543	557	550.5	543	531	[illegible]
75	552	560	552	543	537	[illegible]
74	505	470	464	448	447	[illegible]
73	532	540	540	521	522	[illegible]
	535	536	530	520		512

5 Comp [illegible]

	50	40
5177	462	493
76	462	485
75	485	517

Rubber Comp Cubes

5 [illegible]

5173 - 5 Reg Nickels run in 2N Solution of Sodium Hydroxide made from Metallic Sodium - get from JWA - Solution only To be used if free from Alumina - Chg 15 h 200 Dis 100

5174 Barrier .096 Edge .105 — .104
Barrier .097 Edge .106 — .107

5175 Barrier .094 Edge .105 — .104

5176 Barrier .097 Edge .108 — .105

5177 - Barrier .093 Edge .103 — .105

5182	264	280	197	2[illegible]0	
81	264	288	273	215	
80	274	282	245	230	
79	242	306	250	2[illegible]0	
78	204	270		[illegible]0	

5178 5 Reg Ni - 21% in each Cell put 8 10 grammes of Caustic Lime in 1/16 lumps. Use wooden lime fresh out of bottle in chemical room don't expose to air longer than to weigh + put right in cell - 10 grams to each Cell. Then added 500 milligrammes of Aluminum to each cell - ignition the Cells to rest 24 hours - Then charge 15 hours 200 ohm 100 see Edison about the lime -

Center 89 Edge 99 + 103

5179

Center 90 Edge 99 + 101

5180

Center 91 Edge 102 + 102

5181

Center 93 Edge 105 + 104

5182 -

Center 93 Edge 105 + 105

5187	282	232
86	245	180
85	234	180
84	267	217
83	262	197

5183 5 Rg Ni 21% containing
500 milgms Aluminum in each
Cell & 1 gram of Magnesium
powder used for flash light
Lit Cells sent 24 hours before
Chg — Chg 200 dis 100
89 Edge 102 & 102

5184
Center 89 Edge 101 + 103

5185
Center 92 Edge 104 + 104

5186
Center 95 Edge 104 + 100

5187
Center 92 Edge 103 + 104

5192	247	158
91	272	225
90	272	223
89	268	200
88	267	203

5188 – 5 Reg Hi m. cells The Cells having 2 extra strips of CP nickel 1/8 wide a-b –

put 500 milligrams of aluminum in 2 of the cells

With these strips, connect to current for 24 hours at 200 rate. After that Change the Reg cups + disconnect the strips | Chg 15 h 200 dis 100

Center 91 Edge 154 + 154

5189

Center 89 Edge 102 + 112

5190

Center 90 Edge 104 + 105

5191

Center 43 Edge 77 + 125

5192

center 90 edge 102 + 114

5193	200	230	251	292	250	283	247	4th Treatment

This cell fully Charged & Soaked in Water 5 of 6 hours Covering a period of about 4 hours until Yellow Caste of Solution showing iron — & then let it go a little further & Run it.

Charge 15 h 200 dis 100 —

3rd Treatment — Chg 15 h 200 dis 100 in 21% Containing 250 milligrammes C.P. Merck Cyanide of Potassium —

5193	292	250	292	291	
5193					

4th Treatment

4th Treatment Soaked together with the Iron filings Soaked 24 hours in strong Citric Acid Rinsed & dried

See No 5 book it was treated as No 4 or 5000 along with cell No 26

5193 — One cup from old Endurance Cell No 26 — Soaked in weak Solution of KOH Containing a little Thiosulphate of K — The cup had been previously discharged soaked in water & Dried) Soaked in This 24 hours then put in Water 10 hours

~~Put in 200 Th 2 hours Rinse~~

~~Then Cup in 21% KOH 100~~

~~Then~~ put in 21% with 2 rows of

Chge 15 hours 200 dis 100 —

5198	367	367	273
97	373	323	186
96	374	373	273
95	370	376	260
94	247	375	273

5194 – 5 Reg [illegible] Cent [illegible]
One gramme of Millions Cells –
250 milligrammes of Ammonium [illegible]
Left Cells [illegible] 24 Hours. Before Cly
Cly 15 H 5T Cre – [illegible] 100

Center .091 Edge .103 – .104

5195 Center .094 Edge .10[illegible] – .106

5196 Center .091 Edge .106 – .103

5197 Center .092 Edge .103 – .104

5198 Center .092 Edge .103 – .108

5203	471	457	433	433	433	411	392
02	465	457	442	433	433	417	395
01	462	450	433	433	433	410	383
00	472	460	442	438	433	412	388
5199	441	391	367	367	337	300	283
	462	443	443				

5/1950/390

5199 — 5 Reg Nickels 21%
Containing 250 milligrammes Aluminum
+ 2 grammes fresh precipitated
Barium Carbonate,
[illegible] 125 + 103

5200 Cond. 89 [illegible] 112 + 111

5201 " " " 120 + 114

5202 " 92 " 103 + 107

5203 " 70 [illegible]

50 mlg at [illegible]

5204 = Fr. 2 in 1 file.

S.L. # [illegible] [illegible] [illegible] 88 92

Pla #4L

cl 200 x [illegible] 200 1st 2 [illegible] –

" 200 x " 500 3rd [illegible] "

" 200 " " 200 6 x 7th "

5205 Fr.

S.L. # [illegible] [illegible] [illegible]

Def of 5204

cl x [illegible] [illegible] as 5204

5206 Fe - 2hi 1 Fe. 12/15/66

S.L. #3804 α β γ

#44 Rla.

dr 200 mm 200 2 mm.

" " " 500 3 "

" 200 " 200 2 "

5207 Fe.

S.L. #3805 α β γ

Ref of 5206.

chi 2 mm same as 5206

5208 Fx. 2 thi. x 1 fa.

S.L. # 3806 £ 70 £ 86.+89

#39 R.A.

Ch 200 mm 200. 2 minutes

" " " 500 3 "

" " " 200 2 "

5209 Fx.

S.L. # 3807 £ 72 £ [illegible]

Ref of 5208.

5210 2 lin. 1 fr.

S.L. #3808 c/70 c/85 + 85

148 R.A.

do 200 [illegible] 200 2 [illegible]

" " " 500 3 "

" " " 200 2 "

5211

S.L. #3809 c/68 [illegible]

Dup of 5210

5216	487	504	[illegible]	518	537	519	522
15	482	499	507	508	528	513	511
14	495	507	[illegible]	525	542	530	526
13	486	502	508	517	537	523	519
12	489	505	512	518	541	526	514
	487	515	514	517	537	522	514

Wa out the al left out

5212 5 Reg ni 210/0 containing
3 grammes Opticosol — 250 mlg aluminum
Chg 15 h 200 dev 100
Cent 91 Edge [illegible]

5213 center 91 Edge [illegible]

5214 center 91 Edge

5215 center 92 Edge [illegible]

5216 - center 94 Edge 105 + 105

50 mlg aluminum in each cell

							58	59
5221	497	500	480	494	490			
20	497	515	496	500	500		497	509
× 19	497	509	496	502	500		496	505
× 18	499	515	497	497	500	50 Grams	500	517
× 17	499	516	499	507	508			

5217 5 Rzq Ni 21% Solution
Containing 3 grammes of Crystals
in each half of Barium Hyposulphate,
Chg 15 h 200 dio 100
Centre 93 [illegible] 103-105

5218
Centre 91 [illegible] 100-104

5219
Centre 93 [illegible]

5220
Centre 59 [illegible]

5221
Centre 98 Edge 103 + 106

5226	487	484	491	.093
25	480	477	475	.17
× 24	484	484	490	.13
× 23	487	490	491	.13
× 22	478	477	473	.17

5222 5 Reg Ni 21%
Containing 3 gram[illegible] of a
Manganate.
Chg 15 h 200 dis 100

Center .093 Edge .108 – .104

5223 Center .093 Edge .104 – .104

5224 Center .093 Edge .108 – .102

5225 Center .091 Edge .104 – .102

5226 Center .094 Edge .104 – .104

5231	511	518	505	509	505	509
30	508	518	[illegible]	506	[illegible]	505
29	509	518	511	517	514	514
28	507	518	515	514	513	513
27	507	517	[illegible]	514	512	512

	59	60
5229	500	508
28	502	508
27	500	515

Wasn't the Aluminum left out — [illegible]

Doubtful of any Al ever put in

5227 5 nickels 21%
Containing 1 grammes Stannate
of an alkali ~~— 500 milligrams Aluminum~~
Chg 15 h 200 chs 100

Center .092 Edge .103–.103

5228 Center .093 Edge .106–.104

5229 Center .093 Edge .105–.105

5230 Center .092 Edge .106–.101

5231 Center .092 Edge .103–.104

5236	510	517	522	525	545	528
35	505	507	503	477	528	508
34	507	508	510	517	530	526
33	507	509	512	517	541	525
32	506	508	509	515	537	525
	505	510	512	510	530	526

5236	527			
35	492			
× 34	527		507	517
× 33	527		509	516
× 32	515		405	509
	517			

5232 5 Reg Ni 21%
Containing 2 grammes fluoride
of Potash or Soda
Chg 15 h 200 dis 100
Center 90 Solgt 101 & 104

5233 Center 72 Solgt 103-105

5234 " 89 "

5235 " 78 " 104 & 105

5236 " 92 " 103-105

400 mlg K fluoride Cell

5240	512	518	513	513	498	490	500
39	503	517	509	512	499	485	494
38	513	525	523	525	500	497	507
37½	510	520	517	518	492	489	497
37	508	518	514	513	492	488	497
	509	519	513	516	494	489	499

5240	500			
39	463			
38	507		520	512
37½	499		517	500
37	499		519	508
	494			

5237 = 5 Reg Ni - 21%
Solution from stock potash which has been purified by Lime instead of Barium
Chg 15 th 2nd lies 100
Center .093 Edge .108 - .107

5237½ Center .092 Edge .105 - .105

5238 Center .093 Edge .104 - .104

5239 Center .091 Edge .104 - .104

5240 Center .094 Edge .105 - .107

5245	493	500	507	525	505	512
44	500	506	518	530	508	512
43	507	506	518	533	512	517
42	499	507	517	533	517	520
41	490	498	512	523	505	507
	498	503	514	529	509	514

5245	508		60	61
44	505			
43	513		522	519
42	519		525	512
41	508		525	508
	511			

5241 5 Reg Ni 21% Containing 1 ~~#~~ 5.cc. of Peroxide of Hydrogen Chg 15 h 200 Dev 100 Cent. 92 [illegible]

5242 Centr 92 Colgt. [illegible]

5243 " 91 " 104+105

5244 " 90 " 101+102

5245 " 90 " 101+105

5250	403	307	173
49	390	296	175
48	364	291	173
47	403	307	177
46	400	299	175

Lot cells soak 10 hours before chg

5246 5 Reg Nickels – 21/-
Containing 1 grain Aluminum
+ 1 grain Red oxide of Mercury
in bottom of Cell – Blue 15th 200 dip 100
/ Center 92 [illegible]

5247 center 92 [illegible]

5248 [illegible] 92 [illegible] 14

5249 " 93 " [illegible]

5250 " 92 " 101 + 103

5255	253	181
54	258	182
53	243	174
52	248	177
51	233	174

Let cell soak 10 hours before charging

5251 5 Nickels 21% Containing 3 grammes of green Nickel hydroxide on bottom of Cell & 1 gramme of Aluminum dissolved in Electrolyte in Each cell — chg 15 h 200 disch

Center .094 Edge .103-.104

5252 Center .094 Edge .108-.107

5253 Center .091 Edge .101-.105

5254 Center .092 Edge .104-.105

5255 Center .091 Edge .107-.108

Let cells soak 10 hours before chg

5256 Dup of 5251
Except use more water
any Mercury in them —
Chg 15 h 200 ma 100
Center .091 Edge .103–.106

5257 Center .095 Edge .106–.105

5258 Center .090 Edge .104–.102

5259 Center .095 Edge .106–.104

5260 — Center .091 Edge .105–.104

5265	495	493	498	502	494		59	59
64	[illegible]	50	478	493	485			
63	[illegible]	475	493	488	478		500	490
62	[illegible]	494	500	508	478		525	500
61	[illegible]	487	497	504	494		521	510

5 Ni 21% which has been heated to 150 with 5 grammes of powdered green Nickel Hydroxide for 5 or 6 hours then solution cooled & poured off into cells — Chg 15h200 Dw 100

5261 Center .094 Edge .108 — .105

5262 Center .095 Edge .106 — .102

5263 Center .093 Edge .104 — .105

5264 Center .092 Edge .104 — .103

5265 Center .092 Edge .105 — .104

5270	230	187
69	228	165
68	232	154
67	250	187
66	210	141

5266 5 ni 21% containing one gram of metallic aluminum dissolved in each cell - Cups to be 5000 perforations Charge 15 h 200 dis 100

Center .094 Edge .105 — .108

5267 Center .094 Edge .107 — .108

5268 Center .092 Edge .103 — .105

5269 Center .090 Edge .103 — .106

5270 Center .092 Edge .105 — .104

Run in reg cups

5275	333	X
74	343	233
73	345	231
72	275	147
71	[illegible]	231

1 gm alum

5271 Dup of 5266 except 5000 per Reversed perforations one gram Aluminum.
Chg 15 in 200 dis 100

5272 Center .094 Edge .106 — .104
Center .100 Edge .105 — .107

5273 Center .094 Edge .103 — .106

5274 Center .091 Edge .104 — .103

5275 Center .090 Edge .106 — .105

Run in neg exp

5280	343	242
79	343	244
78	334	243
77	335	205
76	343	240

1 gram alum

5276 Same as 5266 –
but with old C 1250 proportion cups –
Chg 15 hr dis 100

Sealer .093 [illegible] .102 – .105

5277 Sealer .096 [illegible] .107 – .108

5278 Sealer .090 [illegible] .103 – .098

5279 Sealer .093 [illegible] .106 – .105

5280 Sealer .094 [illegible] .105 – .105

Run in very cups
Water blue [illegible]

5250	337	244
59	341	241
53	345	240
52	347	249
51	20	130

1 gm alum

5281 Drip of 5266 Except
old C cups 1250 holes Recovered

[illegible] .106 [illegible] .107 — .109

5282 [illegible] .091 [illegible] .105 — .104

5283 [illegible] .091 [illegible] .103 — .103

5284 [illegible] .095 [illegible] .105 — .105

5285 [illegible] .092 [illegible] .106 — .104

[illegible] [illegible] [illegible] [illegible]

5290	347	252
89	351	260
88	337	232
87	321	233
86	332	232

5286 [redacted]

5 M Reg Cups 2 1/2 with one gram aluminum mt, Use big Coringly die - [illegible] - Ho [illegible]

~~Cly~~ Rewashed performance

Cly 15 h 200 dia 100

Center .071 Edge .102 — .105

5287 Center .090 Edge .101 — .103

5288 Center .094 Edge .105 — .106

5289 Center .091 Edge .103 — .102

5290 Center .091 Edge .104 — .106

big Corrugation

5295	345	231
94	318	200
93	352	243
92	353	227
91	[illegible]	249

5291 Dup of 5286 —
Except 300 atmos pressure

5292 Center .093 Edge .103 — .107
Center .093 Edge .105 — .107

5293 Center .093 Edge .107 — .106

5294 Center .096 Edge .107 — .106

5295 Center .093 Edge .105 — .102

Rig Corrugation

5300	207	124
5299	222	143
98	177	95
97	182	100
96	182	100

5296 - 5 Req Ni 33% - one gram
aluminum dissolved in each cell
Chg q directly in the 33%
Chg 15 hours 200 dis 100

[illegible] .091 [illegible]

5297 [illegible] .094 [illegible]

5298 [illegible] .092 [illegible]

5299 [illegible] .095 [illegible] .115-.127

5300 [illegible] .094 [illegible] .105-.115

5303	264	210	167
04	275	233	178
05	271	232	172
06	261	238	182
07	278	237	183

5301 Dup of 5296 Except only 10% KOH with one gm Aluminum —

Caustic .094 [illegible] .106 – .104

5302 Caustic .093 [illegible] .107 – .106

5303 [illegible] .093 [illegible] .106 – .107

5304 Caustic .093 [illegible] .106 – .106

5305 Caustic .095 [illegible] .107 – .106

5310	476	474	
9	467	457	
8	472	457	
7	467	463	
6	462	458	

5306 5 ml 21% containing 2 grammes of precipitated Silver oxide in bottom 2 inch cell — Chg 15 h 200 ohms

Cond .083 Edge .04 — 105

5307 Cond .113 Edge .0[illegible] 8[illegible]

5308 Cond .157 Edge .0[illegible] — 101

5309 Cond .[illegible] Edge .02 — 101

5310 Cond .089 Edge .05 — 108

5315	493	300	0	477	480
14	487	408	SC	490	496
13	491	412	0	483	500
12	493	x	133	486	494
11	483	415	SC	493	487

OK again —

after 3rd Run Cells taken apart & new Trans put with the nickels in fresh

21 0/0

5311 — 5 Rg Ni. 21% 2 mls of CO
Containing 31 grms [illegible] of
Sulphur for 6 [illegible] of [illegible]
Cl 15 h 200 [illegible] 100

5312 [illegible]

5313 [illegible]

5314 [illegible]

5315 [illegible]

5320	360	270
19	360	285
18	3[illegible]	299
17	349	282
16	33[illegible]	258

5316 5 Reg mi put all together in a bunch in one little cell with a nickel strip, The KOH, Containing 1 grain of aluminum — to be charged & discharged by the Current Chg 15m hours 20 mp per packet discho to zero & Then assemble in Cells having no aluminum in the KOH & mf Reg —

Cooler .093 Edge 102 — 103

5317 Cooler .093 Edge 105 — 102

5318 Cooler .093 Edge 110 — 104

5319 Cooler .092 Edge 106 — 103

5320 Cooler .090 Edge 103 — 103

5325	467	491	473	483	479	Cl	58	59
24	477	493	480	487	487	8	517	497
23	477	495	471	491	487	8	490	483
22	472	513	475	500	475	8	528	498
21	477	497	466	487	455	8		

5321 Reg Mi 21% made from Lump Potash & Nat treated with Barium Chg 15 h 200 dr 100

[illegible]

5322 [illegible] 103-105

5323 [illegible]

5324 [illegible]

5325 [illegible] 103-105

5330	[illegible]	210
29	[illegible]	172
28	[illegible]	202
27	[illegible]	210
26	[illegible]	212

5326 Dup of 5321
but Lump KOH, has 1 gram
Aluminum in Fresh cake —

[illegible] .092 [illegible] [illegible] — 106

5327 [illegible] .092 [illegible] 105 — 106

5328 [illegible] [illegible] [illegible] — 101

5329 [illegible] .093 [illegible] 103 — 104

5330 [illegible] .092 [illegible] 105 — 105

5335	198	173
34	200	175
33	200	222
32	200	200
31	188	174

5331 [redacted]

5 Reg No 21% 1 gram aluminum
Put with wire which are fully
chgd & which after charging
have been soaked in 5% solution
of Potassic Thiosulphate 6 hours &
then soaked in 1/2 gallon water
10 hours — then reassembled
& chgd 15 h. 200 - 1 h. 100

Soaked 12 hours in solution

5332 Center 95 Edge 102 — 108
Center 93 Edge 102 — 102

5333 Center 93 Edge 102 — 105

5334 Center 91 Edge 103 — 103

5335 Center 91 Edge 104 — 104

5340	157
39	157
38	163
37	167
36	164

5336 — 5 nickels 21%
Contains 1 gram Aluminum
and 4 grammes of Calcium
Saccharate (3/100) - dissolve the
Aluminum first & then add the
Calcium Saccharate, above remainder
put in Each cc.cc — Rusk?

	91	102–106
5337	93	101–103
5338	94	105–107
5339	92	103–102
5340	93	101–106

Note -

Best fibers treated hot NaOH, washed & used for separations.

Oxycellulose made by action of Hypochlorite on paper in presence of nitric & Carbonic acid which dissolves in the alkali —
This paper is then unchanged will remove Vanadium from a solution containing one part in 1000 millions

Since Oxalic acid. Contains 6 fibrinfeed

Portland Cement Separations —
bottom for call —

5345	8		
44			
43			
42	324	163	
41	347	213	

Rush Dose

5341 = Take 5 Frons Keep change 24 hours against a strip in a Solution having 3 grammes of Iodide of Potassium to Each 100 cc of 21% KOH, then after change Soak in larger quantity of water Continuing about 1% of KOH, after Soaking 16 hours, carbonize in smaller Cells with Reg Nickels in 21% Containing 3 grammes Iodide Potassium to A Charge 15 h 200 ohms 100

93 105 - 104

5342 92 105 - 106

5343

5344

5345

Stopped 16 hours on No 0

5350			
49			
48			
47	SC	222	
46	325	SC	

Result

5346 = 5 hours [illegible] in Mercury — soak 10 hours in Solution of 3 grammes Iodide of Potassium in 100 cc of 21% — per cup or 500 cc 21% 15 grammes Iodide —

Then put in large quantity of 1% KOH, soak 6 hours — Cosmitize with Reg Nickels put in each cc 3 grammes Iodide till gramm, Chg 15 h zon dis 100

89 103 – 106

5347 93 107 – 104

5348

5349 Lost.

5350 Lost.

Soak 5% & 10 minutes in Solution

[illegible]	556	550	531	511	500	467	511
54	[illegible]	552	537	523	507	400	433
53	553	523	496	[illegible]	420	267	350
52	[illegible]	558	542	[illegible]	450	333	467
51	[illegible]	550	522	[illegible]	433	300	279
	556		525				

5305	487	513	504
54	529	488	502
53	[illegible]	492	[illegible]
52	[illegible]	509	[illegible]
51	487	433	[illegible]

Wastic cotton seed perfect

5351 - 5 Reg [illegible] — Reg [illegible]
21% Cottonseed, one grain [illegible] of 5
Cottonseed & 13 grains [illegible] of 5
Cyanide [illegible]
Chg. 15 h 200 do 100

5352 [illegible] 106 - 105

5353 [illegible]

5354 [illegible]

5355 [illegible]

5360	549	547	514	507	503		
59	554	562	535	530	524	535	533
58	559	556	520	517	518	534	519
57	563	558	525	523	525	537	527
56	577	561	530	530	522	534	519
	560	557	521	521	520	530	524

5360			
59	510	524	482
58	496	518	497
57	503	518	502
56	526	515	499

5/260.0
520

5/260.7
521

4/214.0
530

5356 = 5 Reg ml — ~~Trans~~ containing
no mercury 2% Solution
Containing 1 gramme Magnesium
& 3 grammes Cyanide of Potassium
Chg 15 k 200 d 100

5357	95		104–101
	72		106–100
5358	95		105–104
5359	97		107–108
5360			104–105

200 mg at
600 Reg Euchcall —

5365	303
64	45
63	50
62	50
61	50

5361 — 5 Raighuchel — 21%
Contains 2 grains free
precipitated Copper [illegible]
Cotton [illegible]
Clay 15 h [illegible]

5362	97	105 — 107
	95	105 — 102
5363	92	102 — 104
5364	91	105 — 103
5365	93	106 — 104

5370	291	414
69	291	326
68	291	285
67	291	326
66	300	333

CO

Note

5360 - 5 Reg Ni Reg 7a —
21% over of our aluminum + 2
grammes Cyanide
Reduction Blg 15 k 260 Inches

5367	Inside	94	Edge 104-104
	Inside	92	Edge 104-105
5368	Inside	93	Edge 103-107
5369	Inside	92	Edge 104-104
5370	Inside	91	Edge 104-105

5374	104	155	[illegible]
73	66	85	[illegible]
72	167	[illegible]	[illegible]
71	112	155	[illegible]
70			

5371 – Take the 4 cells Sol. and
[illegible] of the 4827
group and empty the [illegible]
out + put in Regulator 1004,
4 set thermo water bath
150 take 10 heavy, then Empty
the 21% + put in fresh 12170
then Chg 22 15 heavy 200 20.100

5372

5373 Thus 30% Silicate Sol.

5374

5379	455	489	478	56	563	57
78	453	481	475	532	532	519
77	452	481	478	525	515	
76	446	468	463			
75	449	474	474			

5375 5 [illegible]
2 [illegible] 4 2 [illegible]
in [illegible]
[illegible] 200 [illegible] 100
[illegible] 91 [illegible] 103 [illegible]

5376 [illegible] 31 Edge 102 - 102

5377 [illegible] 12 [illegible] 104 - 102

5378 [illegible] 32 [illegible] 104 - 102

5379 [illegible] 12 [illegible] 105 - 103

5384	455	471	463
83	465	479	471
82	472	486	[illegible]
81	469	486	480
80	457	470	465

5380 – 5 [illegible]
21% [illegible] 1 cc of [illegible]
Chg 15th 200 [illegible]

[illegible]	92	[illegible]	103 – [illegible]
5381	[illegible]	[illegible]	104 – 106
5382	94	[illegible]	105
5383	94	[illegible]	103
5384	93	[illegible]	104

5385 ½	358	267
88	355	269
87	365	268
86	355	270
85		

5385 5th Ni - 21% Containing
~~15~~ 2 grams Lactate / Pal[illegible]
Soak the 5 buckets in the solution for
24 hours — Then put in Designer
quantity of 1½% KOH, 4 soak
16 hours. Then remove the
Cells with [illegible] Time is [illegible]
No measuring is done with 21%
Containing of 500 Milligrams [illegible]
Pal[illegible] to each cell —
[illegible] 15th [illegible]
[illegible] Edge [illegible]

5386
[illegible] Edge [illegible]

5387
[illegible] Edge [illegible]

5388
[illegible] Edge [illegible]

5388½
Cell [illegible] Edge [illegible]

5393	425	423		
92	409	422		
91	390	423		
90	390	423		
89	380	411		

5389 5 Reg. Mice group [illegible] in Solution of 21% Continuing 2 grms of Cyanide of Potassium Per Cup — 24 hours. Then put in large quantity [illegible] 1½% NaOH 6 hours. Then washed 5 % in Cells with Reg. water, 21% no cyanide — Colg 15th 200 obs 10 0 [illegible] 102 + 102.

5390 [illegible] 95 [illegible] 102 + [illegible]

5391 [illegible] 91 [illegible] 104 + 104

5392 [illegible] 92 [illegible] 102 + [illegible]

5393 [illegible] 93 [illegible] 102 + 102

5398	325	257
97	327	257
96	327	293
95	326	247
94	327	237

5394 – Put up 5 cells with
Reg Medal & Hdw, put in cool
Cell C 2 grammes [illegible]
[illegible] 21% [illegible]
Bath 24 hours 150 [illegible]
Then pour out KOH, put in fresh
KOH no [illegible] – soak hot 3 or 4
hours pour out again & add
fresh soak again hot 3 or 4
hours then [illegible] 21%
1 Ch 15h 200 [illegible] 100
Center [illegible] Edge [illegible]

5395
Center [illegible] Edge 105 & 105

5396
Center [illegible] Edge 102 & 108

5397
Center [illegible] Edge 105 & 108

5398
Center [illegible] Edge [illegible]

5399-

S.L. # 3810 [illegible]

5400

S.L. # 3811 74 [illegible]

5402 | 107
01 | 943

5401

S.L. # 3812 c 63 c 84+85

5402

S.L # 3813 c 64 c 84+86

5407	488	510	486
06	488	[illegible]	486
05	499	497	488
04	490	507	492
03	490	478	488

5403 5 Reg Tri - 21% Containing 3 grammes Monophosphate Potash for Sodium — Clg 15 h 200 dia 100

	per cell. Cuvier	Edge
	94	103-104
5404	91	101-101
5405	88	99-101
5406	91	102-100
5407	92	100-103

5412	482	497
11	475	500
10	482	492
9	476	467
8	485	

5408 5 Reg Ni Soaked in Acetone 6 hours then dried 4 pint in 21% Chg 15 h 200 chs 100

	91	103 — 103
5409	94	102 — 108
5410	92	106 — 104
5411	91	103 — 103
5412	93	105 — 102

5417	466	472
16	473	482
15	463	—
14	463	477
13	464	480

5413 5 Reg Mickels soaked in Chloroform 6 hours then dried and put in 21% Chg 15 hours 200 dus 100

	96	107 — 105
5414	95	105 — 107
5415	95	104 — 105
5416	92	102 — 103
5417	93	102 — 106

5422	467	485
21	477	484
20	467	485
19	467	483
16	467	483

5418 5 Reg Mahala worked 6 hours in 1 C.P. Methyl Cellosolve - (wood alcohol) 98%
then diluted 4 part in 21%
Chg 15 hours 200 due 100

	93	104 – 104
5419	93	101 – 104
5420	91	102 – 103
5421	94	104 – 105
5422	92	1[illegible]5 – 103

5423	[illegible]	485	
23	[illegible]	492	
23	[illegible]	465	
23	[illegible]	479	
23	[illegible]	1434	

5423 5 Reg Mockets soaked 6 hours in grain alcohol then dried then put with 9 rows that have also been soaked in grain alcohol 6 hours & dried. Then assembled in cells with 21%
Chg 15 h. 200 dro 100

	92	104 — 105
5424	93	103 — 105
5425	100	114 — 112
5426	93	116 — 103
5427	92	103 — 104

[illegible]	458	487			
[illegible]	457	500			
[illegible]	455	491			
[illegible]	[illegible]	489			
[illegible]	465	400			

5428 5 Reg Nuckels
Soaked in a mixture of
Equal parts of Benzol &
absolute grain alcohol
6 hours then dried &
put in 21% —
Chg 15 h 200 chs 100

5429	95	104 — 105
5430	94	106 — 106
5431	94	105 — 103
5432	93	105 — 105

5437	492	493				
36		499				
35	492	500				
34		500				
33		505				

5433, 10 cup of 5428 –
Except 21% KOH, in sum CC.
Cells made from stick
Potash –
Chg 15 h 200 ohms 100
95 [illegible] 106 – 104

5434
94 [illegible] 106 – 105

5435
93 [illegible] 105 – 105

5436
94 [illegible] 105 – 105

5437
93 [illegible] 105 – 104

5442	487	492	500	490	[illegible]
41	487	492	507	492	[illegible]
40	487	500	507	495	490
39	473	499	500	492	[illegible]
38	473	[illegible]	517	495	[illegible]
	469	499	506		

5438 5 Reg Mickelo [illegible] in closed [illegible] 24 hours in grain [illegible] Then dried & put in 21%

Chg 15 [illegible] 200 of in 100

	93	107 – 103
5439	94	106 – 105
5440	93	104 – 106
5441	92	103 – 103
5442	91	103 – 105

5443 Group of Reg 11
using Reg Diet –
5 with cross 5 at Corrugate
5 at
Chg 1"

5447	185	167
46	200	173
45	210	173
44	222	257
43	200	167

5443 – 5 Ni Corrugated
with big corrugations 160 albumen
& put in 21% Sodium
500 milligrams albumen in
Each cell
Chg 15 h 200 dis 100
Capacity Chge

5444
Charge [illegible]

5445
Charge [illegible]

5446
Center [illegible]

5447
Center [illegible]

5452	167	91	
51	128	80	
50	190	133	
49	232	50	
48	50	50	

CO

I find that the wire is so great it pulls Crimp out — hence the big Corr are neg —

5448 - .5 mi big Corrugations
10 alums — Reversed Perforations
Charged discharged in 53 m
Chgd 15 h 200 dis 100
Center 101 Edges 95 + 96

5449
Center 100 Edges 89 + 92

5450
Center 96 Edges 90 + 92

5451
Center 110 Edges 90 + 92

5452
Center 103 Edges 90 + 92

5457	324
56	30
55	306
54	320
53	130

*

5453 Dup of 5448
Except 20 alwes

Center 118 Edge 111 - 116

5454 Center 116 Edge 107 - 107

5455 Center 121 Edge 103 - 109

5456 Center 118 Edge 109 - 109

5457 Center 121 Edge 113 - 111

5462	243
61	375
60	333
59	334
58	217

*

5458 Dupe of 5445
Except 40 atmospheres

	116	107	106
5459	115	107 —	109
5460	111	108 —	110
5461	112	109 —	107
5462	114	104 —	107

~~5463~~

5467	400	
66	368	
65	399	
64	372	
63	330	

5463 – Dup of 5448
Except 80 almost phosphorescent

	112	110 – 108
5464	109	105 – 106
5465	110	105 – 106
5466	111	108 – 10[illegible]
5467	110	104 – 10[illegible]

5472	457	517	555	567	585
71	458	[illegible]	533	559	600
70	457	425	50	513	[illegible]
69	457	511	547	560	600
68	457	516	558	574	628
	[illegible]	493			

9/12/98 [illegible]

12467
493

5468 Dup of 5448
Except 160 almost

	102	100 – 102
5469	105	101 – 101
5470	103	100 – 99
5471	103	101 – 98
5472	105	102 – 102

5477	453	507	567	Pot.	56	57
76	453	507	532	~	516	567
75	463	499	517	~	532	577
74	452	495	539	@		
73	453	513	567	5	528	595
	453	504				

112 57 / 504

112 27 / 453

5473 Dupes 5448

Except 200 almas.

	103	97 - 99
5474	101	98 - 97
5475	97	96 - 94
5476	99	97 - 98
5477	103	97 - 95

5482	461	509	56	56	57	
81	473	520	545	557	611	
80	440	473	527	500	526	
79	441	473	522	482	550	
78	423	482	470			
	431	496				

c. Sum on Bd.

$\frac{1223}{491}$ $\frac{1482}{496}$

5478 Dup of 5448 —
Except 250 returns

	101	97 — 98
5479	97	96 — 98
5480	101	93 — 97
5481	99	97 — 95
5482	96	95 — 95

5482	478	497	515		56	57
86	458	499	530		520	532
85	46	517	523		547	532
84	461	491	527		512	533
83	440	459	497			
	444	492				

5246 / 499 5262 / 492

5483 Dup of 5448
Except 300 alms —

	98	95 -- 95
5484	95	92 — 95
5485	94	92 — 90
5486	96	92 — 92
5487	95	91 - 91

							58	59
5492	450	493	501	503	50	58 Barium on Back		
91	477	493	503	500	505		522	522
90	467	493	503	508	495		525	514
89	[illegible]	490	499	495	490		528	510
58	[illegible]	493	497	500	495			
	461	492	501	501	499			

5)2304
461

5)2462
492

5)2506
501

2506

5488 — 5 Reg Ni
21% Barium containing 3 grammes
Borax —
Chg 15% 200 cc 100
Cont [illegible] 57 [illegible] 10 [illegible]

5489
Cont 92 [illegible]

5490
Cont 96 [illegible]

5491
Cont 98 [illegible]

5492
Cont 94 [illegible]

5493 5 Reg Wi soaked
6 Rough in Alphakyder
then dried put in Bal 1/0
Chg 15 h 20 h dry 100 l

5494

5495

5496

5497

5[illegible]	[illegible]	489	492	492		
		493	508	500		
55[illegible]		491	506	495		
5499		487	498	496		
96		487	499	492		
	487					

5498 5 Reg Nickels
Soaked 6 hours in Ether
then dried put in 21/0
Chg 15th 200 dies 100 !

5499	94 92	105 – 106 104 – 102
5500	93	105 – 103
5501	97	108 – 105
5502	94	104 – 94

5502	476	491	518	503	490	
	475	503	527	510	496	
[illegible]	[illegible]	497	490	497	475	
09	467	489	491	490	475	
53	475	487	492	492	[illegible]	
	473					

5503 5 Reg'ni soaked 6 hours in gasolene then dried put in 21% Chg 15 h 200 dis 100

5504	94	105 – 105
	93	105 – 104
5505	92	102 – 105
5506	95	105 – 107
5507	93	105 – 108

5512	455	445					
11	443	455					
10	452	461					
9	458	470					
8	461	471					
	449	463					

$\frac{5)2249}{449}$ $\frac{5)2317}{463}$

5508 5 Reg. M 21% Containing 3 grammes Chloral hydrate. Chg 15 h 200 d to 100 Enclosed

Center [illegible] Edge 103 + 104

5509

Center [illegible] Edge 103 + 105

5510

Center 92 Edge 105 + 107

5511

Center 92 Edge 104 + 104

5512

Center 89 Edge 99 + 100

5517	[illegible]	420	426	420
16	352	408	403	[illegible]
15	50	323	458	[illegible]
14	417	452	445	433
13	50	433	428	[illegible]

after assembly let stand 10 hours

5513 5 kg gli 21%
Containing 3 grains
Carbonate Bismuth, each cell
Chg 15 h 200 dis 100 —

5514	93 95	104 — 104 104 — 105
5515	95	104 — 106
5516	93	102 — 105
5517	94	104 — 105

				55	56
5522	480	485	[illegible]	533	512
21	484	[illegible]	[illegible]	542	525
20	487	495	[illegible]	532	[illegible]
19	487	465	[illegible]		
16	484	483	[illegible]		
	482	487			

5 | 242 / 482 25 | 243 4 / 487

after assembly let it rest 10 hours

5518 5 Reg Ni 21%
Containing 3 graduations.
Carborundum Distinction on each
Coll
Chg 15 h 200 Cu 100
Center 91 Edge 104 + 104

5519
Center 91 Edge 105 + 102

5520
Center 91 Edge 104 + 104

5521
Center 91 Edge 104 + 104

5522
Center 93 Edge 105 + 108

				55	56	
5527	488	485	[illegible]			
26	490	486	[illegible]	542	515	
25	480	477	[illegible]			
24	485	481	[illegible]	527	513	
23	485	481	[illegible]	522	505	
	485	485				

5) 2428 / 485 5) 2425 / 485

after assembly let it rest 10 hours

5523 - 5 Reg Ni 21%
Containing 3 grammes
Carbonate Cobalt in [illegible] of CC
Chg 15 h 200 d in 100
Center 90 Edge [illegible]

5524
Center 94 Edge 103 - 106

5525
Center 91 Edge 105 - 104

5526
Center 92 Edge 104 - 105

5527
Center 94 Edge 104 - 104

5532	469	495
31	470	[illegible]
30	472	[illegible]
29	477	[illegible]
28	487	[illegible]

after assembling let it rest 10 hours

5528 – 5 Reg Ni 21 o/o
Containing 3 grams [illegible]
Carbonate Uranium [illegible]
Cell –
Chg 15 h 200 d = 100

	Center	Edge
5529	92	101–101
	93	99–100
5530	91	104–105
5531	89	99–101
5532	87	100–100

5537	577	583	438	400	467			
36	581	587	511	458	[illegible]			
35	581	586	502	500	[illegible]			
34	590	610	533	500	[illegible]			
33	[illegible]	598	533	267	[illegible]			
	593	593						

5)2964
593

5)2964
593

5533 5 Reg Hi soaked 6 hours in gram alcohol then dry put in 2½% Cont aining 3 grammes Cyanide of Potassium, in each hole Chg 15h 200 dis 100 –

Cracks 94 Edge 106–110

5534 Cracks 96 Edge 106–105

5535 Cracks 93 Edge 105–106

5536 Cracks 95 Edge 106–106

5537 Cracks 98 Edge 105–106

5542	256	455	439
41	281	458	466
40	275	450	457
39	263	465	465
38	470	500	463
	299	481	

299

5538 — 5 Rg Strychnine soaked 6 hours in grain alcohol then dried. The mice that go with them also soaked in alcohol 6 hours & dried. Then mixed in 6 Cc 4% put in Cocoa Containing 21% with 3 grains of Cyanide of Potassium in 2 cub cc

Chg 15h 200 dr 100

Weight 95 Edge 104–103

5539 Weight 95 Edge 105–106

5540 Weight 95 Edge 106–99

5541 Weight 93 Edge 104–104

5542 Weight 95 Edge 106–106

5547	457	475				
46	462	492				
45	462	490				
44	459	475				
43		490				
	461					

5543 5 nickels first
soaked 6 hours in
Bouyal & drained, then
cooked 6 hours in grain
alcohol & drained,
then put in 21%
Chg 15h 200/in 100
Center 94 Edge 105–106

5544 Center 94 Edge [illegible]–108

5545 Center 95 Edge 106–102

5546 Center 95 Edge 104–104

5547 Center 90 Edge 105–102

4/23/67
461

5552	557	530	592	333	300	
5[illegible]	553	430	574	375	297	
5[illegible]	545	555	500	187	233	
5[illegible]	5[illegible]	510	592	265	310	
		462	333	282	179	
	534	538				

$\frac{+2672}{534}$ $\frac{+2690}{538}$

5548 Dup of 5543 —
Except the 21/2 hrs
3 grams Cyanide & 6
Potassium in each case
Cly 15th 200 Dis 100 —

5549 [illegible] 101 [illegible] 111-112
[illegible] 96 [illegible] 107-104

5550 [illegible] 94 [illegible] 106-104

5551 [illegible] 93 [illegible] 105-103

5552 [illegible] 95 [illegible] 108-106

5557	583	590	500	438	433
56	592	610	512	407	500
55	582	610	533	212	433
54	593	588	400	438	401
53	583	590	367	375	422
	586	597			

5) 2985
597

5553 — 5 Rqui
21% Containing in Excess of C
3 grammes Carbonate lime
freely precipitated — 4 3 grammes Cyanide Potassium
Chg 15th 200 Dis 100
Scale 91 103 — 101

5554 Scale 93 Edge 104 — 105

5555 Scale 93 Edge 106 — 101

5556 Scale 95 Edge 104 — 103

5557 Scale 93 Edge 105 — 103

5562	500	[illegible]	494		[illegible]	503	[illegible]
61	472	490	495		500	507	[illegible]
60	484	477	494		[illegible]	500	[illegible]
59	482	490	495	[illegible]	[illegible]	500	[illegible]
58	475	490	495		500	505	
	479	486	493		[illegible]	[illegible]	

	60	61
5562	547	572
61	552	579
60	547	522

5558 — 5 Reg Ni put in bottle
was glass cliffers [illegible]
full with [illegible] Clark & C-
put on hot plate 6 hours
hot [illegible] 125 [illegible]
set it on [illegible] use
6 or 8 oz bottle, [illegible]
with 120, [illegible] 21%
Chg 15/h [illegible]

5559 93 107 — 117
93 103 — 103

5560 [illegible] — 125

5561 [illegible] — 114

5562 93 114 — 114

5567	392	333	34[illegible]	433	
66	48[illegible]	373	20[illegible]	195	
69	442	452	[illegible]	333	
64	442	467	[illegible]	399	
63	408	477	[illegible]	[illegible]	
	429	426	320	339	

5563 — 5 Reg Mi in 20% Mercle from Ludwig Patent! Containing No Barium — Use one gramme of Iodide Pot[illegible] — Prepared No Mercury Chg 15 to 200 dens 120

5564	93	105 — 105
		101 — 106
5565	94	107 — [illegible]
5566	92	105 — [illegible]
5567	92	105 — [illegible]

200 milligrams Sodichell

5563 omitted spilled

4) 1356
339

4) 1281
320

32) 1424
429

5572	487	459	107	100
71	487	459	95	103
70	Broken –			
69	S.C.	367	5	5
68	S.C	459	3	3

These cells were assembled wrong and lead 15 lbs. remove before the mistake was found. The poles were then removed and cells were reg. – W.E.H.

5568 — 5 Reg with Mercury
1/8 inch in bottom with Sal-ammoniac
with Zinc – in the solution
[illegible] one gram ammonia 21%
use John G. Rowe — Chg 15 h 200 ohs 102

5569	12	104–104
	12	104–103
5570	12	108–107
5571	12	104–102
5572	14	[illegible]

200 mg Carbon

5577	5590		
76	5572	459	
75	5		
74			
73			

5573 5 Reg III – 21%
Containing 2 grammes Hypochlorite
of Potassium in the Cell.
Chg 15 h 200 dis 100

5574

5575

5576

5577

5577	465	507	498	487	502	5 Grams Reg	56	59
81	476	507	497	483	500		537	516
80	465	504	492	480	492		531	517
79	466	503	491	476	492		547	517
78	467	505	492	480	483			
	463	505						

133/463

126/505

5578 5 Reg M 21%
Containing 2 grams mercury Antimoniate
of Potash or Sodium -
Chg 15th 200 dro 100

5579 94 105-103
96 105-108

5580 96 103-108

5581 94 106-104

5582 94 105-104

400 mily each cell

		476	498	462	Quinine mix. End	57	58	
		478	496	486				
		485	500	496		538	517	
		500	491	486		503	487	
		485	485	490		50[illegible]	510	

5583 5 Reg N. 21% with 5 grammes powdered Lead glass through 150 mesh or finer set thereto Hard Daily make it use 5 grammes in 2 inch Coff.
Chg 15 h 200 dis 100

	Cinchona	Edge
5584	90	101-99
	90	100-99
5585	93	103-103
5586	88	102-100
5587	90	104-102

						57	58
559	487	487	481	478			
91	480	475	478	473		552	515
90	493	492	466	465		[illegible]	541
89	482	457	461	476		[illegible]	527
88	487	487	[illegible]	469			

5588 5 Meters with 21%
Containing 1 gramme
Defenate of potash or soda per
Ch g 15 h 200 des 100 Cell

5589	94	107 – 106
	96	105 – 106
5590	96	107 – 106
5591	97	107 – 108
5592	92	104 – 105

5597	467	462	458	453	Total	57	58	
96	456	120	426	423				
95	444	460	459	456		530	502	
94	463	467	456	463		557	515	
93	462	457	452	453		537	502	

5593 – 5 Reg N 21% Carb
1 gramme Tellurate of Potassium
or Sodium – C hg 15th 200 dis 100

5594	96	115 – 117
	97	117 – 114
5595	95	103 – 116
5596	95	112 – [illegible]
5597	94	115 – 117

Why in hell don't you
state which you use Sodium
or Potassium

5560	[illegible]	491	491	492
[illegible]	[illegible]	486	487	487
66	487	484	486	489
[illegible]	[illegible]	483	486	486
46	[illegible]	481	481	480
	467			

C

5598 5 Reg Mn 21% Containing
30 Milligrammes Lead Hydroxide
Chg 15th 200 cbs 100 –

	92	103 – 104
5599	93	103 – 104
5600	95	107 – 103
5601	95	105 – 103
5602	96	105 – 104

6 July to Call

2334
467

5 5607	345	467	462	467
6	424	466	460	467
7	429	472	463	467
8	420	467	463	472
9	413	464	450	467
	467	469		

5603 5 Reg Ni 21% with one prominent albuminum — Chg 15 h 200 chs 100

	91	104 — 104
5604	92	105 — 103
5605	91	103 — 101
5606	94	106 — 105
5607	91	105 — 102

200 only Each cell

5612	[illegible]	502	469	481	[illegible]	49	58
11	481	502	469	481			
10	481	502	455	481		552	523
9	[illegible]	507	492	482	[illegible]	552	523
8	[illegible]	505	[illegible]	482	[illegible]	[illegible]	515
	460	503					

5608 5 Rig Ni 21% quite
2 grammes Oxalic acid
Chal 15" h 200 dia 100

	94	106 – 104
5609	92	104 – 106
5610	96	103 – 105
5611	95	105 – 107
5612	93	103 – 105

400 only each cell

5613	465	505	500	475		549	556
16	461	507	503	500		549	537
15	459	499	495	496		552	537
14	465	509	505	500		552	533
13	461	505	499	496			
	461	504					

1/2705 461

1/2722 504

5613 — 5 Reg Ni 21%
3 grammes formate/log Potash
or Soda
C lig 15 h 200 dus 100

5614	92	103 — 105
	95	106 — 105
5615	90	101 — 105
5616	95	107 — 105
5617	95	104 — 104

600 only finds cell.

5622	474	471	470	465		57	58	
21	487	485	485	481				
20	483	476	475	471		561	472	
19	489	485	489	486		559	531	
18	493	488	487	490		567	540	

5618. 5 Reg Ni 21% with 3 grammes succinic acid [illegible] Chg 15 h. 200 dro 100

5619	93	12 — 126
	94	105 — 104
5620	91	1.1 — 98
5621	92	104 — 104
5622	93	104 — 107

5632						
31						
30						
29						
28						

5628 5 Reg Hu 21%
On - 20. Mesh -
Chg 15 hours 20 dus 100

5629 [illegible] 1891 [illegible] 113 - 125
[illegible] 1894 [illegible] 125 - 132

5630 [illegible] 1892 [illegible] 116 - 125

5631 [illegible] 1893 [illegible]

5632 [illegible] 1895 [illegible] 117 - 125

5637	508	499	502	492	491	
36	507	497	495	482	481	
35	511	495	502	492	492	
34	507	495	502	490	492	
33	507	492	497	487	488	
	508	492	499	488	488	

5)2463
492

5)2498
499

5)2443
488

5)2442
488

5633 5 Reg Pl 21%
through 20 on 40 mesh.
Chg 15th 800 des 100

5634 .392 103-106

5635 .391 100-104

5636 .391 104-104

5637 .391 105-106

5642	486	473	490	476	475		
41	475	465	473	464	465		
40	472	461	470	465	462		
39	474	464	471	465	462		
38	479	463	477	467	467		
	477	465	476	467	464		

5 | 2387 / 478

5 | 2324 / 465

5 | 2381 / 476

5 | 2321 / 464

5638 – 5 Ragi 21%
Through 40 on 60 [illegible]
Chg 15 h 200 dia 100

[illegible] .088 [illegible] – 101

5639 [illegible] .092 [illegible] 106 – 102

5640 [illegible] .094 [illegible] 104 – 106

5641 [illegible] 103 – 107

5642 [illegible] 107 – 103

5647	470	457	464	452	455
46	459	459	470	467	467
45	467	465	477	470	472
44	481	445	50	50	456
43	479	417	415	425	433
	471	448	463	450	456

5)22 41
4 4 8

4)1853
463

5)22 53
4 56

4)1811

5643— 5 ni 21/6
Through 60 on 180 mark
Chg 157 h 200 dia 100.
[illegible] 156 Edge 102—[illegible]

5644 [illegible] 152 Edge [illegible]—[illegible]

5645 [illegible] Edge 104—[illegible]

5646 [illegible] Edge 105—[illegible]

5647 [illegible] Edge 105—106

5652	447	475	457	451				
53	450	460	462	447				
50	450	50	453	[illegible]				
49	450	453	433	432				
48	[illegible]	472	[illegible]	453				
	438	467	451	453				

$\frac{2.2}{5}$ $\frac{1880}{467}$ $\frac{2257}{451}$

5648 5 m 21%
Through 80 on 100 mesh
Chg 15 h 200 dm 100

5649 [illegible] 10.5
[illegible] 166 – 104

5650 [illegible] 105 – 106

5651 [illegible] 107 – 106

5652 [illegible] 107 – 105

5654	400	373	307	249	293
56	400	338	282	217	167
35	[illegible]	200	160	65	244
54	[illegible]	440	410	403	[illegible]
53	[illegible]	333	300	211	[illegible]
	384	337	280	250	234

5 | 1171
234

5 | 1684
337

5 | 1402
280

5 | 1264
253

5653 — 5 m-21%
Through 100 on 120 mesh
Chg 15 h 200 chs 100
[illegible] 105 edge 107-105
5654 [illegible] 293 [illegible] 107-[illegible]
5655 [illegible] 167 edge 105-104
5656 [illegible] 244 Edge 110-106
5657 [illegible] 293 Edge [illegible]-110

5662	350	279	230	117	
61	357	189	141	189	
60	313	253	218	187	
59	213	76	30	7	
58	332	282	247	220	
	313	215	173	124	113

5 | 1079 / 215

5 | 866 / 173

5 | 564 / 113

5 | 720 / 124

5658 — 5 m 21%
Through 120 on 140 meal

Chg 15h 200 due 100

5659 [illegible] 1097 [illegible] 110 — 108

5660 [illegible] 1096 [illegible] 110 — 109

5661 [illegible] 1095 [illegible] 107 — 108

5662 [illegible] 1094 [illegible] 106 — 108

5667	363	385	350	324	
66	299	188	153	92	
65	319	245	218	200	
64	357	325	360	297	
63	320	258	200	175	
	335	280	240	217	

5 | 1401 / 280

5 | 1201 / 240

5663 — 5 m 21%
Through 140 on 160 m on
Chg 15h 200 dn 100

5664

5665

5666

5667

5672	250	153	107	77
71	453	465	437	427
70	317	276	247	239
69	276	191	141	112
68	167	29	5	3
	292	223	189	171

5/1114/223

5/943/189

5/1358/1111

5668 5 m 21 o/o
Through 160 on 180 mesh
Chg 15 h 200 dis 100
Eff 76 Bin 105 + 107

5669
Eff 74 Bin 108 + 107

5670
Eff 72 Bin 104 + 106

5671
Eff 90 Bin 104 + 105

5672
Eff 90 Bin 106 + 105

5673 —

S. L. # 3814 $\frac{C}{70}$ $\frac{E}{87+90}$

5674

SL # 3815 $\frac{C}{72}$ [illegible]

5675

S.L. # 3816 $\frac{c}{65}$ $\frac{c}{82 \& 82}$

5676

S.L. # 3817 $\frac{c}{66}$ $\frac{c}{81 \& 82}$

5678	227	268	322	350	350	353	383
5677	401	405	417	420	403	404	398

[illegible]	349	367	307	345	329
[illegible]	393	400	385	392	[illegible]

D

~~5678 not pricked~~

~~5677 to be done with Holes pricked in — left overnight soaked again in warm alcohol —~~

5677 = Old 157 Soaked in Warm Ethyl Alcohol 24 hours, 21% Reg Final
Chg 15 h 200 dry 100

5678 — Old 26 cell —
Single pricked soaked 24 hours in warm Ethyl Alcohol — 21% —
Chg 15 h 200 dry 100 —

see 5736 + 5737

also 5977 + 5978

5683	405	406	289	132		
82	404	400	280	132		
5	392	381	262	132		
80	402	399	277	132		
94	405	393	267	200		
	403	392				

5 201 8 / 403 | 196 / 392

5679 5 Reg Ni 21%
Containing one grammes of
Aluminate of Soda or Potash +
500 milligrammes of Aluminium
dissolved in the KOH, divided among all
Chg 15 h 200 dis 100 tubes
[illegible] 92 [illegible]

5680 [illegible] 92 [illegible]

5681 [illegible] 94 [illegible]

5682 [illegible] 92 [illegible] 103 + 103

5683 [illegible] 93 [illegible] 103 + 103

5683	240					
87	242					
88	242					
89	243					
84	242					

5684 - 5 Regme 21 o/s Containing one gramme Aluminum and 4 grammes of powdered Nickel Hydroxide (green) through 100 mesh and put the Nickel hydroxide in the 21 o/s Containing the Aluminum & let it soak 10 hours before putting in the grids —
Clock 10 to zero — [illegible]

5685	93	103 — 105
	92	107 — 102
5686	97	104 — 106
5687	95	108 — 107
5688	93	105 — 104

5693	261				
92	258				
91	258				
90	242				
89	242				

5689 – 5 ml 21 o/t Containing
500 milligrammes of Calcium –
Then put in ~~[illegible]~~ ~~[illegible]~~ Three grammes each of
freshly prepared Barium Carbonate
and left ~~[illegible]~~ Solution stand 24 hours –
Charge 15 h 200 c.c. 100 –

5690	95	107	– 107
			– 104
5691	96	107	– 104
5692	96	102	– 101
5693	95	105	– 105

5698	471	485	469	467	442	492	
97	470	471	475	48[illegible]	441	[illegible]	
96	470	462	476	487	490	[illegible]	
95	465	450	475	487	490	[illegible]	
94	464	478	[illegible]	480	490	[illegible]	
	473	480	[illegible]	489	490	[illegible]	

	Eq. 60	
96	542	513
95	512	505
94	538	510

1/2392 / 476

3/2402 / 490

4/2439 / 489

5/2453 / 490

5694 5 Reg No - 21% Cristaline
3 grammes of clear mica powder
up to 1/8 ~~at~~ a minder —
Chg 15 h 200 cts 100

5695	94	104-106
	91	100-104
5696	94	100-101
5697	92	104-103
5698	90	102-100

5702
01
01
5700
5699

5699 — 5 ml 21% in Tumbler
+ 3 grammes of graphite
from one of the little bottles
with screw top — Put the graphite
in a ~~[illegible]~~ cup ~~[illegible]~~ so it will not float out +
Cross cells —

5700

5701

5702

5703

5708					
07					
06					
05					
04					

Soaked in Hot alcohol

5704 5 nickels, soaked
6 hours in ~~Hot~~ grain alcohol
then dried 3 hours hot plate
Put in 13% Solution of
Sodium Hydrate made from
metallic Sodium —
Chg 15 h 200 dis 100

5705 —

5706

5707

5708

5713	461	467	474	453	[illegible]
12	467	476	485	[illegible]	[illegible]
11	452	459	462	459	[illegible]
10	441	435	472	469	[illegible]
9	450	458	467	443	481
	454	464	476	[illegible]	493

5/22272 / 454 | 5/23223 / 464

5/2380 / 476

5709 - 5 gibbs pockets packed off Edge so make contact put in frames but dont packi — Soak 10 hours in 21% Containing 3 grammes Hyposulphite of Soda or Potash, well then put in water in a little CaCl 48 hours — Then assemble in CaCl2 Reg fresh 21% Chg 15 h 200 clos 10.0

did not bailes

5710

5711

5712

5713

5718	281					
17	260					
16	272					
15	250					
14	272					

5714 — 5 M. 21% Containing 500 milligrammes of Aluminum & 2 grammes of Freshly Precipitated Carbonate of Magnesium

Filtrate & lg 15 h 200 d. 100 cub. [illegible]

5715	88	102 — 101
	93	105 — 101
5716	93	104 — 101
5717	90	104 — 102
5718 —	89	101 — 99

5720	489	495	508
22	487	493	508
21	485	495	498
20	492	498	509
19	496	495	504

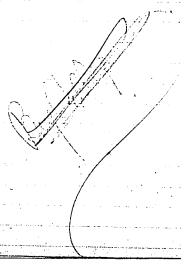
5719 = 5 nickels pressed with big corrugation die only 300 atmosphere. Then soaked grain alcohol 6 hours. Then dried 2 hours and heated = 21%. Charged 15 h 200 dies 100

	95	95 – 98
5720	98	94 – 94
5721	96	95 – 95
5722	96	93 – 95
5723	98	93 – 95

5728	0	[illegible]	492	[illegible]	500	484
27	0	433	424	500	511	498
26	0	[illegible]	467	[illegible]	507	[illegible]
25	0	[illegible]	502	[illegible]	[illegible]	[illegible]
24	0	[illegible]	493	[illegible]	[illegible]	[illegible]

5-Diameter Eich.

	Eq.	60.
5727	550	552
26	[illegible]	550
24	605	552



Lungi Coryfin 300 o/Tubes

5724: 5 Diameters 5719 — Except after Alcohol treatment put in little cells with 2% Carbolized Hypponuclphite of Sodium Potash Clay 15 h 200 dis 100 —

5725	100	76 — 97
	[illegible]	95 — 95
5726	[illegible]	94 — 97
5727	97	95 — 97
5728	99	96 — 98

5733	522	535	10	545	[illegible]	
32	507	[illegible]	481	[illegible]	[illegible]	
31	481	495	452	[illegible]	[illegible]	
30	530	515	492	523	[illegible]	
29	495	520	467	520	[illegible]	

Lungs Corrupting – 300 atmos,

5729 = Same as 5719 — Except that after alcohol treatment, put 21% in bottle CCCo containing 2 grams Cyanide of Potassium per cent. Chg 15 h 200 dis 100

	97	94 — 92
5730	102	100 — 95
5731	94	95 — 97
5732	97	95 — 94
5733	97	95 — 95

5735 | 340
34 | 275

5734

S.L. #3818 $\frac{1}{76}$ $\frac{2}{91+92}$

5735

S.L. #3819 $\frac{1}{75}$ $\frac{2}{90+91}$

5736
5737

5736 Old pockets from little Enclosure Cell No 26 —
Soaked in warm alcohol all night — Then ~~[illegible]~~ Then Dried 3 hours on hot plate, Then examined with Reg Trans 21 1/2
Chg 15 1h 200 d/s 100 —

5737 — Same as 5736 —
but soaked in Benzol instead of alcohol.

5742					
41					
40	253	167			
39	247	212			
38	259	242			

No non packets

5738 - 5 Reg M 21% —
Containing 500 milligrammes of
Aluminum & Kieg with 3.2
Grammes of Cadmium hydroxide
~~[illegible]~~ dried at gentle heat, ~~[illegible]~~
Chg 15 h 200 dis 100
To each 3.2 of CdOH add
250 milligrs dry Magnesium
oxide & twice & with the
Cadmium Oxide —

5739 W.

5740 93 104 – 101

5741 90 105 – 107

5742 96 108 – 104

5738 98 107 – 108

5739 92 104 – 102

5743	275	203	157		
46	282	215	177		
45	280	203	163		
44	281	[illegible]	164		
43	277	[illegible]	165		

5743 = 5 Reg No 21 %
Containing 50 mlg Aluminum
Run with 3.2 grams mes Metallic
Cadmium in each cup fill the Cadmium
to about 20 meshes
Chg 15 h 200 dis 100

5744	94	107 – 108
	93	103 – 105
5745	94	106 – 109
5746	92	104 – 105
5747	92	105 – 105

5752	[illegible]				
51	[illegible]				
50	327				
49	332				
48	[illegible]				

5748 5 Req M 21 %
Containing ~~25~~ 250 milligrams
of Aluminum + 1 gramme of
Bichloride of alcohol — Sc. [illegible]
Chg 15 h 200 dec 100

5749 [illegible] 104 — 103
[illegible] 104 — 105

5750 [illegible] 101 — [illegible]2

5751 [illegible] 100 — 106

5752 [illegible] 103 — 102

5757					
56					
55					
54					
53					

5753 = 5 Req Ni in 130/0 Solution of Sodium Hydroxide made from the metal & containing 250 milligrammes of Aluminium or 2 grammes of freshly precipitated Carbonate of Magnesia — Eac. Acid Chg 15 h 200 chs 100

5754

5755

5756

5757

Sodium Hydrate made from the Metal

5758 5 ml 13% ~~of~~
Sodium Hydrate containing
250 milligrams aluminium &
1 gramme of fresh Calcium
Hydroxide. each cell
Chg 15 h 200 dis 100

5759

5760

5761

5762

5767				
61				
62				
63				
64				
65				

5763 = 5 Reg Ni with beg Corrugations 250 atmosph 13% Sodium Hydroxide from the metal, Chg 15 h 200 dur 100,

5764	100 101	97 — 98 96 — 98
5765	99	92 — 95
5766	100	97 — 96
5767	99	97 — 95

5771					
70					
69					
68					

8 made 8 outside

5768. 16 Req cups from Glen Ridge put in bottle with glass stopper, 21% KOH put down burners on 1/8 asbestos on hot plate put date on label on bottle + number - put stopper in

5769 - Dup of 5768 Except 12% Sodium Hydrate from the metal -

5770 Dup of 5768 Except 21% of Sodium Hydrate from the metal,

5771 - Dup of 5768 except 21% KOH with 3 grammes Aluminum dissolved in KOH,

5772 Dup of 5768
Except 21% KOH. with 5 grammes
graphite from little bottle with
Screw Top —

5773 Dup of 5768 Except.
5 grammes of Rubber pin
Separators, moulded Kind - 21% KOH.

Notebook, N-05-01-17.1

7272 = 5 nickels
green hydroxide, rolled 84 2
graphite, abrasgraphite, spun and
purified graphite only
two tenths each — not
ammonia to dampen the
mix when rolling — use
minimum quantity of
ammonia lift the nickel
hydroxide through 20 mesh
Chg 15 h 200 Chro 100

7273

7274

7275 —

7276 —

7277

S.L. #3866 $\frac{c}{[illegible]}$ $\frac{c}{[illegible]}$ 6

7278

S.L. #3837 $\frac{c}{[illegible]}$ $\frac{c}{87+88}$

7261	307	442	451	462	446	458
80	317	338	353	357	365	365
79	377	397	422	433	431	433

Evidently KCy hurts the un-prepared to the amount, when the grid is soaked in solution but ok when small amount in KOH, & its run

done

7279 — Reg nickel soaked .64 hours in 100 cc KOH containing 1 gram Cyanide Potassa = put in 21% + run.
Chg 15 h 200 dis 100

done

7280 Same as 7279 except 2 grams KCy in the soaking solution put in 21%.
Chg 15 h 200 dis 100

done

7281 Same as 7279 except Soaking solution had 500 mlg KCy — put in 21%.
Chg 15 h 200 dis 100

7286	500	506	500	508	505	517	512
85	500	522	515	528	525	530	527
84	524	524	527	532	528	533	531
83	525	533	533	542	537	539	537
82	520	533	533	541	537	542	537
	518	523	522	530	526	532	

7286	517	526	516	517	500	513	515	518	511
85	533	540	537	533	528	533	537	535	529
84	537	545	540	537	530	535	535	540	531
83	540	552	548	545	536	542	542	548	538
82	542	555	550	545	537	545	545	550	540

7286	510
85	532
84	535
83	542
82	543

2 8 5 10 15 20
1 4 9

4

5/2608 / 522

5/2543 / 518 5/2618 / 523 5/2651 / 530 5/2638 / 528 5/2661 / 532

7282 5 m 21% Containing
50 milligrammes Cyanide Potassium
in 5 each c.c. —
Chg. 15 h 200 d. 100

	Limits	Actual
7283	94	104-103
7284	92	104-100
7285	88	101-101
7286	92	100-103
	88	101-102

7291	557	566	552	558	583	582	581
90	522	562	533	538	563	563	553
89	535	540	538	533	567	565	553
88	533	540	538	533	558	547	538
87	543	537	542	538	547	565	555
	538	544	541	540	563	564	

7291	580	585	557	582	567	575	575	560	582
90	548	560	553	588	550	563	563	542	558
89	538	555	553	558	550	557	552	539	558
88	533	538	558	553	548	557	553	540	557
87	550	558	540	558	550	557	553	540	558

5th Run Calliper

7291 —	103	104
90	103	107
89	104	108
88	103	106
87	104	106

7291	567	585	563	585	515
90	547	567	550	563	537
89	543	558	542	560	533
88	543	552	492	552	533
87	538	555	538	555	533

7287 5 ml 21% Carbamazepine
100 milligrams Cyproheptadine
Palatonum in each 00 —
Chg 15k 200 dw 100

	Center	Edge
7288	92	105-104
	93	103-101
7289	94	106-104
7290	92	104-103
7291	91	102-102

7296	564	578	560	552	567	542	558
95	567	562	562	564	588	567	560
94	558	571	547	550	567	600	556
93	554	560	527	525	522	563	555
92	571	547	550	559	533	582	580
	563	563	549	550	555	571	

7296	557	568	560	450	558	557	550	526	497
95	560	583	585	538	558	558	578	557	567
94	557	565	550	533	567	567	567	542	562
93	557	555	555	538	548	538	533	507	542
92	580	553	553	583	567	567	527	525	583

7296	497	560	500	550	500
95	538	580	533	567	562
94	527	560	523	567	550
93	497	527	467	533	455
92	492	567	533	567	513

7291

5 | 2746 / 549

5 | 2750 / 550

5 | 2815 / 563

5 | 2815 / 563

7292 5 mi. 21% with 250 milligrams Cannibis ref. Data [illegible] in rank order — Chg 15 k 200 chg 100

	Center	Edge
7293	92	100-104
7294	91	100-101
7295	93	104-102
7296	88	99-102

			S				X	X
7301	570	560	533	460	567	7	582	505
7300	567	554	521	429	567	584	560	485
7299	580	572	533	547	600	600	587	525
98	581	572	532	462	600	600	587	525
97	583	578	507	467	592	600	582	525
	576	567	525	461			579	

Run Ni 47% Sep - X is Ni run in Reg 21%.

Run Ni

	7%	
7301	510	505
7300	467	505
7299	400	500
98	433	500
97	400	500

After 6th run 102 was acid Ni & new Run & changed ROH since work — no Key —

X is run in 21% no Key —

Run with new Ni to see run again Reg ROH Ketch is changed 2 or 3 times — to see if from recover —

	7%			
7301	496	505	505	500	508
00	485	510	490	500	482
99	508	515	508	513	500
98	508	515	508	513	508
97	508	515	512	500	500

	7%					
7301	572	572	572	500	500	500
00	518	518	518	572	515	508
99	483	483	500	500	500	500
98	500	503	505	500	500	499
97	500	500	505	500	500	500

7297 5 Ni 21% coll
one gram Cu[illegible]
Pat [illegible]
Clg 15 to [illegible]

	Cu	Edge
7298	94	104 - 102
	90	102 - 101
7299	93	106 - 102
7300	90	99 - 100
7301	91	100 - 102

7306 | 33
5 | 133
4 | [illegible]
3 | 133
2 | 133

Pb Cy present first in KCy

7302 5 Irons continuing
Iron without any measuring
put with 2 nickels 3.5 —
21% with 1 gram Cyanide of
Potassium, in each cell
Chg 15 h 400 dis 100

	88	100 – 98
7303	87	106 – 102
7304	87	102 – 101
7305	87	102 – 108
7306	86	102 – 103

Cuttings of drum

7311	87	
10	86	
9	88	
8	103	
7	103	

7307 5 Grms Containing
Fulminate of mercury —
Put with 2 Mallets 3.5 in 121°/s
Containing 2 grammes equivalent
of Potassium Lime each cell.
Elg 15th 400 dec 200 —

7308	86	102-102
	88	105-105
7309	86	101-104
7310	88	104-107
7311	87	102-99

7312 5 grams containing iron without any Mercury — with 2 grams of KI — 21% Containing 2 grammes of the saturated solution of Nickel Potassium Cyanide —

Chg 15 h 400 Sec 100

7313	87	103-103
	86	102-105
7314	86	105-104
7315	87	103-101
7316	86	101-103

7317

S.L. # 3838 $\frac{a}{67}$ $\frac{c}{87+87}$

7318

S.L. # 3839 $\frac{a}{67}$ $\frac{c}{87+87}$

7319

S.L. # 3840 $\frac{a}{70}$ $\frac{c}{87+87}$

7320

S.L. 3841 $\frac{c}{70}$ $\frac{c}{87+87}$

7321

S.L. # 3842 $\overset{H}{81}$ $\overset{N}{84485}$

7322

S.L. 3843 $\overset{S}{65}$ $\overset{L}{95+K}$

Aforesaid assays —
only trace of Al_2O_3 in 10 629 7c
determined in 4 different ways —

4 different samples tested,
shows only trace Al_2O_3 =

Pin separation (Moulded)
Total ash 3·92 %

Silica	1·39	%
Fe_2O_3	·68	"
Al_2O_3	·43	"
MgO	1·01	"
CaO	·23	"

Bottom Insulation 005 grms Al_2O_3 out
of 10 grms = ·05 of 1%
Sheet Insulation same amount

5

7327	479		478	475	490	506
26	489		492	475	486	500
25	483	491	477	475	490	500
24	482	492	467	477	487	500
23	482	499	478	477	487	497

7327	500	497	505	497	515	500	500	500	493
26	500	498	505	500	517	500	500	500	493
25	500	498	505	508	517	500	500	507	498
24	500	497	500	497	500	500	497	500	492
23	500	498	500	498	498	500	512	500	493

7327	493	483	488	500
26	493	467	478	500
25	498	495	495	490
24	500	480	478	487
23	490	486	483	500

7323 – 5 m. 21% Run Regular on 6 times then remove the Nickels & substitute new Nickels but do not change the 21% ?

The 1st nickels are supposed to remove the bad stuff from the Reg. see ? —

7324	92	103 – 102
	90	97 – 105
7325	89	92 – [illegible]
7326	90	92 – 105
7327	90	97 – 100

7326	490	[illegible]	[illegible]	493	
27	486	[illegible]	[illegible]	481	
28	491	[illegible]	493	490	
29	497	[illegible]	[illegible]	490	
28	436	[illegible]	493	493	

7328 = 5 Ni 2.1% Containing
1 gram Potassium Hypophosphite
Chg 15 h 200 dro 100 –

	Finishes	Edge
7329	89	102-100
	91	101-105
7330	90	101-97
7331	90	102-102
7332	92	102-102

[illegible]	433	431
[illegible]	[illegible]	427
[illegible]	445	445
[illegible]	415	415
[illegible]	[illegible]	397

7333 5 gibbs pockets brightened with Finely proper on Edges post on frames not pressed 21% Containing 1 gram of [illegible] of Potash
Soak 10 hours before charging
Chg 15 h 200 Lbs 10 lb

7334	95	97-95
7335	95	92-94
7336	98	101-97
7337	100	97-107
7333	95	93-97

[illegible]	428		433	442	454
[illegible]	373	385	388	390	400
[illegible]	525	533	50	539	540
[illegible]	460	467	454	472	487
[illegible]	443	458.	454	466	483

7338 Same as 7333 but 2.1%
Containing 1 gramme Extracted of
Potash
Soaked 10 hours before changing &
~~[illegible]~~ [illegible] 15 h 20 [illegible]

7339	102 96	103 – 99 98 – 95
7340	101	99 – 97
7341	103	104 – 101
7342	95	97 – 94

7343	[illegible]	487
[illegible]	[illegible]	485
[illegible]	[illegible]	489
[illegible]	[illegible]	488
3	[illegible]	482

7343 = 5 ml 21% Containing
1 gram Metaphosphate of Potash
Clay 15th 200 lb. 100

	Lower	Upper
7344	92	100 – 101
	90	99 – 100
7345	91	100 – 99
7346	90	[illegible] – [illegible]
7347	90	[illegible] – 101

[illegible]	481
[illegible]	469
[illegible]	493
[illegible]	500
[illegible]	487

7348 = 5 ml 21% Containing
1 gram Pyrophosphate P.C.T.h
Charge 15 h 200 dro 100 —

7349	91	101 — 103
	91	102 — 100
7350	92	103 — 103
7351	93	104 — 102
7352	91	101 — 99

7357	482	447	458	468
56	463	477	498	490
55	466	457	50	450
54	472	460	458	484
53	466	452	475	467

Co

7358 = 5 nickels received with [illegible] numerators [illegible] denominators [illegible]

[illegible] 200 times

7354	93	[illegible] — 84
	97	[illegible] — 84
7355	97	[illegible] — 83
7356	100	[illegible] — [illegible]
7357	18	[illegible] — [illegible]

7358 = 5 regular cells for Warren. Two 3.7 hrs = one 4.5 Ze. 21 o/o. KOH.
Chg 20 hrs. @ 200, discharg @ 200 on first run.

	78	88 – 88
7359	72	88 – 86
7360	81	86 – 85
7361	76	87 – 89
7362	72	85 – 87

7364	575	533	450	433	443	477
65	577	532	525	433	443	433
66	553	550	531	467	447	410
67	573	550	543	467		446
68	[illegible]	546	541	533		526
	576	542	519	466		

5)2333
466
5)2198
519

5)2882
576

5)2711
542

Caution!

7363 = 5 nickels. 21%
Containing 1 gram ~~[illegible]~~
Cyanide of potassium.
Don't put the ~~[illegible]~~ grids in the
Solution until 5 minutes
before 4 pm – so they will go on
Change immediately
Chg 15th 200 also 100 —
After 1st Run change the
Solution & put in 21% Req
KOH.

	Blanks	Sigs
7364	89	100 – 106
	93	100 – 114
7365	92	125 – 163
7366	88	100 – 98
7367	90	101 – 101

		New Solu KOH changed Dec
7372	480	477
71	480	462
70	481	477
69	471	477
68	486	456

Duplicate this
they don't change the
KOH as does

7368 – M' dipped 10 minutes in a solution of Nickel dissolved in Ammonia ~~[illegible]~~ and Ammonia. They put on hot plate & dried 2 hours – at 5 minutes to 4 pm put them in 21% KOH & put them right on charge

Chg 15h 200 dis 100 –

after ~~the~~ Changing change the ~~[illegible]~~ Potash, then discharge

	second lot 91	100 – 103
	94	106 – 100
7369	89	102 – 102
	second lot 91	99 – 103
7370	89	100 – 100
	second lot 93	104 – 102
7371	90	104 – 98
	second lot 91	103 – 104
7372	89	99 – 98
	second lot 93	101 – 101

7377	482	491	496	507
76	50	465	474	500
75	482	488	496	512
74	467	482	488	500
73	460	497	500	517

Co

7373 Dupe of 7368 –
But only change the Potash
after the changing

7374	92	104 – 100
	89	100 – 100
7375	90	102 – 100
7376	92	100 – 100
7377	89	97 – 97

7382	487	490	494	500
81	490	490	497	508
80	478	486	495	500
79	478	487	487	500
78	478	492	497	511

7378 5 nickels –
dipped for 10 minutes in Nickel
Ammonia Solution CP no ammonia
Salts – Solution will be made –
clipping done by Edison –
dry slowly on heater, 6 hours –
Low heat,
Put in 21% Chg 15 h 200 dw 100

7379	99	101 – 99
	92	102 – 102
7380	92	91 – 97
7381	91	91 – 102
7382	90	90 – 98

7383 - 5 Reg nickels. 21%
Charge & discharge once
give to Edison to soak free of
Potash - Then dry 2 hours
on heater, then dip 10 minutes
in CP Nitric - dry gentle heat
6 hours.
21% Chg 15h 200 dis 100

7384

7385

7386

7387

7389	239	
90	305	
91	307	
89	305	
144	477	

7393	503	523	560	540	546	562
92	463	483	508	508	510	522
91	469	512	533	525	530	535
90	483	507	533	522	525	533
89	442	400	567	523	533	560
			540		529	

7389 [illegible] tod

5	2644	529
5	2701	540
4	102	

See Calipers notepage

Chgd pockets 11 Tuesday

7389 59 ibs pockets put in frames and recommpacted
300 atmospheres
21% Chg 200 dis 100

7390	105	100-103
	104	104-97
7391	100	98-101
7392	102	106-100
7393	101	106-101

7398	239	229	229	200
97	385	400	413	398
96	367	400	405	385
95	385	400	405	392
94	471	497	527	513

7394 5 gables packed
made free of KOH, put in
frames not pressed — Edges
packed — given to Edison
to dip 10 minutes in CP
NaOH solution, dried at
gentle heat 6 hours,
then put in Cells 21 g Chg 15 h 200 ds h

7395	104 98	103 — 103 102 — 101
7396	101	101 — 102
7397	99	100 — 104
7398	107	105 — 108

Calified after Edison departed
thence.

7399 =

Nickels

Bunch of 30 nickels on Rod charged 15 hours 200 rate, then pulled out put in Water & give to Edison for further treatment.

7400

Another Bunch

Charged & discharged 200R per pkt by the Current & then Charged again & put in water & given to Edison for further treatment —

7405	345
04	345
03	345
02	358
01	350

7401 5 ml 21% Containing
250 milligrams Chloramine & 2 grams
acetate of Soda — in each cell
Cly 15 h 200 div 100

7402	84	100 – 102
	92	1[illegible] – 1[illegible]
7403	90	96 – 102
7404	89	[illegible] 98
7405	90	100 – 102

7410	352	245
9	350	247
8	350	253
7	345	238
6	348	233

7406 5 ml 21% containing
250 mlg Aluminum + 2 grammes
of Cobaltic hydroxide
Pistock in 7. Dr. Cell
Chg 15 h 200 dis 100

7407 [illegible] — [illegible]

7408 [illegible] — 11

7409 [illegible] — 101

7410 [illegible] — 99

7411 — 5 Reg No 21 1/2
~~[illegible]~~ made with Copper
that has been soaking in 33%
dowmethane for several weeks
Rinse off with distilled water
but do not soak them then
put in paper on heater & dry
1/4 hour then 3.2 nickel
Chg 15 h 200 chro 100 -

7412

7413

7414

7415 —

7411	427	454	471	479	486	478	493	500	500
16	333	353	372	385	400	400	493	433	433

7417	500	500
16	433	433

Lunc

7416 — 2 [illegible]
[illegible]
[illegible]
gone — [illegible] repressed
with [illegible]
150 [illegible] 121%
[illegible]

7417. —

Note news were not chgd [illegible]
put in —
[illegible] bright & [illegible]
good news —

7417 stuck right in old Corrency
7416 dull was one side other side only [illegible]

7421	233	237	247	235	277	262	286
20	240	233	247	270	284	287	287
19	244	233	247	267	283	287	287
18	253	245	247	288	300	270	300
	242	237	247	252	286	281	290

7421	292	292	293	295	290	287	284	281	247
20	293	295	300	295	299	287	297	283	248
19	294	298	300	297	297	283	288	282	250
18	307	310	310	304	312	299	300	297	275

7421	307	294	295	299	293	
20	298	312	303	303	302	
19	298	299	300	303	299	
18	325	315	318	319	313	

4 | 1160
290

4 | 1144
286

4 | 1126
281

4 | 970
242

4 | 948
237

4 | 1060
252

5007
5007
5007
5008

7418 = Group 5007 — Aluminum

Soaked with 1 till Aluminum Reff.

Dried — and mix [illegible]

Weighing [illegible]

	Cents	Sum
7419	96	104-105
	93	104-104
7420	92	[illegible]
7421	94	[illegible]

Results of assay for [illegible]
[illegible] assay [illegible]

Requires [illegible]	0·518
Absorbed [illegible]	0·011
[illegible]	0·098
Rubber [illegible]	0·100
[illegible]	0·106
Moulded [illegible]	0·404 ?
Resin [illegible]	0·070

[illegible]	[illegible]	245	260	267	271	273	* 272	300

* 2nd Treatment – 1/19/05. Put his finger in a 0/0 KOH containing 245 milligrammes Hg Cy 2.

7423 = Thus of 5698 of No 26
Soaked in water till practically free KOH + water was strained off, then dipped 5 minutes in CP Nitric – [illegible]
[illegible]
Hg Cy 15 h 200 [illegible] –

The Nitric [illegible]
[illegible]
14 c Nitric in 5 minutes –

7424 Cobalt from oxalate reduced by hydrogen, by Ch. agent, and 8% of mercury put in —
4.5 to pocket. 1 pocket 1 to
Nickel to — ~~[illegible]~~
~~100~~ 21% Chg 17 h 200 Ago 100

7425

7426

7427

7428

After 15th no
no opportunity
for detailed on strip

7429 = Dry 21% KOH, one hour
pocket and tickler strip, reverse
the wire (?) make it circle
(put in the 21% is green wire)
Ammonia at get Kerosene
strip — Reversed 15 hours —
idea being ammonia carries
water to electrolyte more readily
in Kerosene

7434	477	472
33	477	463
32	477	463
31	482	477
30	482	467

7430 5 in 21% charge & discharge
Reg & then Recharge — quiet to Cathode
to 1 snak from 20th. Then dry & recommenced
at 75 atmos —
afterward charge to 200 & 100

7431	92 92	103 – 103 [illegible] – 95
7432	89	101 – 101
7433	89	100 – 100
7434	92	103 – 100

7439	482	475
38	483	475
37	483	475
36	470	475
35	477	473

7435 – Buchanan to 7430 except
Rearrangement of 150 acreage [illegible]
[illegible] Section [illegible]

7436 [illegible] 152
[illegible] 161 – 160

7437 [illegible] 97 – 97

7438 [illegible] 164 [illegible]

7439 [illegible] 160

7444	482	487	504
43	482	491	507
42	481	497	502
41	482	494	507
40	482	494	500

7440 – 5 Reg Ni – charged and [illegible]
in 21 p/s Reg moved to Edinburgh to work free
of K.G.H." Then day a re-arrangement
75 c.c.m. – Chg 15th [illegible]

7441	90	101 – 100
	91	102 – 100
7442	91	99 – 101
7443	93	103 – 104
7444	91	100 – 103

S							
7449	476	513	522	525	527	526	518
45	481	510	517	523	[illegible]	[illegible]	512
47	474	510	520	510	[illegible]	[illegible]	503
46	474	500	513	507	[illegible]	[illegible]	502
45	456	507	514	510	511	[illegible]	509

7449	525	523	527	532	523
48	526	523	527	532	521
47	516	512	515	521	508
46	512	511	515	522	509
45	526	521	525	530	514

Evidently [illegible] [illegible] [illegible] [illegible] [illegible]

7445 Dup. of 7446 —
Same operation except in vacuum pate
150 atmospheres —

7446	91	102 — 100
	91	100 — 102
7447	90	102 — 97
7448	91	103 — 102
7449	90	102 — 107

9wa

7450 [illegible]
[illegible]
[illegible]
[illegible]

[illegible]	482	577	504	512	517	537	537	518
52	572	56	—	—	—		484	499
52	491	500	488	500	497		494	493
52	86	507	498	509	517		513	510
57	499	[illegible]	497	507	505		510	509

7451 — 5 ni pitin Cupro-nickel
heavy plated to 5/1000 +
Smooth press 150 — Corrugate 150 —
Chg 15 to 200 [illegible]

7452 [illegible] [illegible]

7453 [illegible] [illegible]

7454 [illegible] 115 — 115

7455 [illegible]

6 cups not [illegible]

[illegible]	507	512	493	500	499	509	505
59	507	517	500	507	513	518	518
58	499	518	497	502	505	513	512
57	506	17	493	497	499	517	512
56	[illegible]	[illegible]	Good	[illegible]	[illegible]		

7460	510	500
59	522	513
58	518	511
57	520	510

7456 = Rogers made day [illegible]
a outside Cylinder of steel [illegible]
4½ thousandth [illegible]
015 — [illegible] smoothness
150 Corrugate 150 — .210/d
Chg 15h 200 [illegible] 100

7457	92	101 -150
	89	100 -102
7458	90	91 - 102
7459	[illegible]	[illegible]
7460	90	100 -101

7465	452	497	505	508	509	[illegible]
64	483	497	505	510	510	[illegible]
63	475	457	497	467	457	462
62	450	495	500	509	507	513
61	486	500	505	510	510	513
	475	495	502	501	491	

7465	503	508
64	503	508
63	453	455
62	513	512
61	513	512

5 | 2372 / 502

5 | 2503 / 501

5 | 2493 / 499

5 | 237 / 475 + 2474 / 495

7461 = 5 inch [illegible] The [illegible]
[illegible]
Rolled [illegible]
[illegible]
[illegible]

7462	94 / 95	103 — 102
7463	92	102 — 104
7464	92	105 — 103
7465	93	101 — 102

Caliper [illegible] Gage

7470	477	484	[illegible]	488	[illegible]	[illegible]
69	483	500	505	509	[illegible]	[illegible]
68	477	494	505	507	[illegible]	[illegible]
67	478	497	505	505	[illegible]	[illegible]
66	483	498	508	509	503	[illegible]
	477	494	504	503		

7470	487
69	512
68	503
67	500
66	508

5 | 2578
503

5 | 2484
477

5 | 2470
494

7466 — Cape of 7461 — except
Cape [illegible]
[illegible]

7467	95 96	105 – 105 102 – 105
7468	93	104 – 108
7469	94	101 – 103
7470	93	102 – 103

Cailes [illegible]

7475	[illegible]	
74	[illegible]	
73	[illegible]	
72	[illegible]	
71	[illegible]	

7471 = 5 [illegible]

7472	88 89	100 – 95 [illegible] – 100
7473	90	[illegible] – 108
7474	93	104 – 103
7475	91	101 – 102

	S							
7480	472	517	523	530	[illegible]	[illegible]	[illegible]	522
79	480	522	528	533	[illegible]	[illegible]	[illegible]	532
78	477	520	517	532	[illegible]	532	526	530
77	483	527	515	537	[illegible]	533	[illegible]	537
76	472	518	523	528	[illegible]	[illegible]	[illegible]	524
		521	521	532	[illegible]	[illegible]	526	[illegible]

7480	514	521	517
79	520	528	523
78	521	528	530
77	526	535	533
76	515	521	520
	514	526	524

7476 = 5 nickels [illegible]
[illegible] 7 [illegible] to [illegible]
[illegible] 3 times, [illegible]

up stairs

7477	89	100-100
	90	100-104
7478	94	101-102
7479	90	101-101
7480	89	101-101

5

good

7485	476	543	543	547	[illegible]	[illegible]	547
84	477	532	540	541	[illegible]	[illegible]	[illegible]
83	477	532	537	543	[illegible]	[illegible]	547
82	478	533	543	547	[illegible]	[illegible]	[illegible]
81	470	522	530	533	[illegible]	[illegible]	[illegible]
		532	539	542	[illegible]	[illegible]	[illegible]

7485	547	537	544	545
84	538	529	536	535
83	541	532	538	537
82	543	536	541	541
81	533	523	529	530
	540	531	537	539

5 | 2662 / 532

5 | 2693 / 539

5 | 2711 / 542

7481 = Except 7476 – Except [illegible]

7482	[illegible]	101–103
	88	97–99
7483	[illegible]	[illegible]
7484	[illegible]	102–101
7485	91	103–103

7490	485	491	487	482	490
89	488	488	505	492	506
88	486	491	492	497	505
88	485	492	498	497	500
86	479	492	505	497	507
	473	491	496	489	

5 | 2445
489

5 | 2377
473 ; 2465
4912 ; 482
490

7486 = 5 [illegible]
[illegible]
[illegible] 2146
9 times

7487	87	101-97
[illegible]	91	[illegible]
[illegible]	91	101-[illegible]
[illegible]	92	[illegible]
[illegible]	87	97-99

7441 — [illegible]

2013 times [illegible]

7441	92	101 — 102 103 — 104
7442	87	100 — 100
7443	90	97 — 99
7444	89	95 — 97

7500	427	427	427	416	417	[illegible]	423	412
7499	430	407	415	403	417	[illegible]	[illegible]	412
98	455	423		412	417	[illegible]	[illegible]	412
97	430	397		390	400	[illegible]	[illegible]	400
96	462	452		447	447	[illegible]	[illegible]	467

7500	418	417	430	417	427	415	422	408
7499	412	412	407	400	412	417	420	400
98	415	417	413	417	422	417	425	412
97	400	400	398	398	407	400	420	393
96	477	457	447	440	447	452	462	433

7500	425
7499	413
98	428
97	412
96	450

7416 = 5 [illegible]
in 33% Edem[illegible]
then [illegible]

[illegible]	94	103 [illegible]
[illegible]	91	101 - 102
[illegible]	93	99 - 101
[illegible]	94	106 - 103
[illegible]	94	104 - 103

7501 = 5 [illegible] 2½% change [illegible]
Reg [illegible]
to Shock of [illegible] from [illegible] off,
to [illegible]
[illegible] 2½% [illegible]

[illegible]	91	102-104
[illegible]	91	102-100
7503	92	103-104
7504	93	102-100
7505	94	103-100

75[illegible]

[illegible] Req- [illegible]

[illegible]

[illegible]

[illegible] At 150 atmos —

[illegible]

	93	103—105
1507	88	99—95
1508	92	1[illegible]1—104
1509	90	10[illegible]—104
1510	92	102—102

7511 = [illegible] Regni 32 [illegible]
[illegible]
[illegible]
21/[illegible]

7512	95	112–141 106–107
7513	[illegible]	[illegible]
7514	96	109–110
7515	97	109–110

7516 – [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

7517	91	[illegible] – 99
		[illegible] – 102
7518	91	103 – 104
7519	91	103 – 104
7520	93	116 – 99

7521 = 5 [illegible] 8 [illegible]

7522

7523

7524

7525

7526 =

7527

7528

7529

7530

7531 =

7532

7533

7534

7535

7538	220	233	203	210	243	247	257
37	287	260	230	243	267	240	300
36	290	253	227	240	267	290	300

7536 = 10 [illegible]
4.15 [illegible]
[illegible]
against [illegible]
Rest [illegible]
[illegible]
whole heart [illegible]
dog [illegible] 5 times —
to run 2 miles [illegible] 1 mile
2 [illegible] 15 [illegible] 200 —
[illegible]

	3.5 mi. Spaniels says	4.p.te mile
	82	95–94
7537	82	94–94
7536	82	93–94
7537		
7540		

[illegible]	477	[illegible]	[illegible]	489	488	492	491	487
44	468	[illegible]	[illegible]	467	467	463	467	465
43	484	490	488	492	488	492	491	487
42	472	482	480	483	473	480	472	467
41	478	458	472	458	478	483	481	474

7545	496	495	498	478	491	481	479	
44	467	467	466	458	483	450	449	
43	495	494	491	478	497	477	475	
42	477	472	471	458	475	461	462	
41	484	487	479	465	480	467	468	

7545	490	495	450	493	490	482	507	492
44	459	463	482	465	461	453	472	467
43	486	479	480	491	490	485	500	497
42	467	480	463	471	469	467	479	473
41	476	482	467	477	475	244	5.61	477

C.O.

7541 = 5 [illegible]

Changed [illegible]

[illegible]

91 [illegible]

[illegible] 91 [illegible]

543 91 101-102

[illegible] [illegible]

91 98-101

7550	450	453	433	462	450	447	[illegible]	433
49	431	[illegible]	433	408	490	400	[illegible]	382
48	447	457	457	445	433	[illegible]	[illegible]	400
47	444	457	433	411	446	[illegible]	[illegible]	410
46	427	433	433	423	382	[illegible]	[illegible]	350

7550	495	427	412	400	397	400	400	373
49	408	400	356	357	463	367	367	342
48	400	400	367	370	367	370	372	360
47	410	412	375	373	367	370	372	347
46	342	350	322	333	333	333	333	300

7550	390
49	358
48	370
47	362
46	322

7546 [illegible]

not [illegible]

[illegible]	90	103-100
[illegible]	90	103-100
7548	92	103-104
7549	92	104-100
7550	90	103-99

7555	[illegible]	493	477	467	[illegible]	[illegible]	[illegible]	453
54	503	488	488	475	[illegible]	[illegible]	[illegible]	467
53	503	488	487	467	482	[illegible]	[illegible]	457
52	493	480	493	475	[illegible]	[illegible]	[illegible]	467
51	50	480	493	467	467	[illegible]	[illegible]	467

7555	455	442	438	433	457	450	423	
54	460	458	458	447	457	458	433	
53	457	438	433	433	433	443	415	
52	462		458	449	467	463	430	
51	467		458	445	457	460	457	

7555	442
54	452
53	430
52	452
51	452

7551 [illegible] frame

[illegible]

[illegible]	87	[illegible]	[illegible]
[illegible]	90	[illegible]	[illegible]
7554	88	[illegible]	[illegible]
[illegible]	91	[illegible]	[illegible]

7560	500	477	483	497	504	500	496	497
59	478	481	487	500	[illegible]	521	505	504
58	450	475	478	485	492	485	581	491
57	460	483	492	505	[illegible]	505	503	504
56	478	483	492	509	[illegible]	508	506	500
	473	480	489					

7560	494
59	—
58	491
57	498
56	500

since Ms [illegible] not
as kept it in Solution too long

5)2399
479

5)2362
473

5)2422
484

7556 = [illegible] – goes to
[illegible] during [illegible]
[illegible] are [illegible]
allowed [illegible]
[illegible] 15 [illegible]

7557	94	104 – 105
		105 – 103
7558	93	102 – 97
7559	93	102 – 106
7560	90	97 – 102

7565	457	477	445	44[illegible]	[illegible]	[illegible]	473	483
64	467	493	477	512	[illegible]	485	498	513
63	620	483	483	503	[illegible]	[illegible]	478	480
62	457	493	492	523	[illegible]	[illegible]	513	517
61	467	493	489	[illegible]	[illegible]	[illegible]	517	525

7565	483	482	500	512	488	506
64	513	508	517	527	507	528
63	488	488	500	510	483	505
62	513	508	517	527	507	528
61	513	514	522	528	515	533

7561 = [illegible]

[illegible] 70 77-75

[illegible] 75 [illegible] 75

[illegible] 75 [illegible] 77-79

7570	477	468	493	512	[illegible]	[illegible]	495	512
69	485	500	505	523	[illegible]	[illegible]	512	527
68	491	496	503	523	[illegible]	10	510	527
67	486	505	508	[illegible]	[illegible]	[illegible]	512	527
66	450	493	477	523	[illegible]	[illegible]	499	520

7570	507	507	513	500	513	518	517
69	525	523	522	517	533	529	517
68	527	523	513	525	533	530	532
67	535	525	530	525	533	537	532
66	525	515	518	513	533	525	523

7566 = [illegible] 7561 – [illegible]

7567 [illegible] 93 [illegible] 99–99

7568 [illegible] –101

[illegible] 15 [illegible] –94

[illegible]

7571	367	417	459	470	485	502	497	485	473
74	385	412	455	487	455	507	[illegible]	487	505
73	394	457	450	473	503	[illegible]	[illegible]	503	501
72	392	458	457	476	495	[illegible]	[illegible]	[illegible]	497
71	367	400	373	428	442	[illegible]	[illegible]	[illegible]	475

7571 = 5 R. g. Ni 21%
Calcium [illegible] Nitrate
of [illegible]

7572	89	[illegible]
7573	91	102-99
7574	93	105-102
7575	[illegible]	99-96

7560	498	469	503	503	506	500	495	491
79	477	499	505	500	506	500	497	494
78	477	492	497	500	500	500	495	492
77	463	486	494	491	496	490	490	494
76	472	464	497	502	498	490	496	493

7576 = 5 Ni 21%
Smooth [illegible]
Nat Co[illegible]
21% [illegible]

7571	76	97-95
	76	95-95
7575	75	96-96
7571	77	97-97
7559	72	95-93

7581 = [illegible] of 7578 —
Excepting [illegible] —

7582

7583

7584

7585 —

7586 5 ni with [illegible]
with [illegible]
3.2 [illegible]
100 [illegible]
Thru 21 [illegible]

7587

7588

7589

7590

7591 — [illegible]
Nicky Rogers [illegible] 354
Cowley [illegible]
[illegible] — 21/-
[illegible]

7592

7593

7594

7595

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

7602	233	270	291	310	322	339	200	316
01	333	333	340	342	334			

Wnd Treatment for 7601 — 1/7/05. Washed free of KM, dried & [illegible] recovering after 2002

7601 | S.C. | Pocket was split on 1st run after Wnd treatment

7601 — [illegible] — 5677 — w 7601

5193 — w. 7602

[illegible] 36 hours [illegible]

[illegible] free from [illegible] 8/05

[illegible]

7602 w 5193

7607	492	498	527	525	525	518	518	527
06	492	498	525	525	525	517	517	523
05	487	495	522	523	520	513	525	520
04	485	492	517	523	513	510	525	520
03	497	500	527	530	525	520	533	527

7607	[illegible]	510	515	522	s.c.	515	520	508
06	[illegible]	508	513	516	523	510	515	508
05	[illegible]	527	500	510	523	503	517	498
04	[illegible]	510	500	499	500	497	500	493
03	[illegible]	527	510	516	525	507	512	500

7607	512	493	505
06	512	508	505
05	505	500	498
04	497	500	493
03	507	505	500

7607 [illegible] Smooth [illegible]
[illegible] 200
[illegible]

7607	97	102 -103
	99	100 -100
06	96	102 - 98
7608	98	102 -103
7607	95	95 -100

7611	499	481	507	517	522	522	520	521
10	487	490	498	509	518	518	517	517
9	483	498	506	517	521	523	520	520
8	487	471	508	521	521	525	524	522

7611	517
10	520
09	517
08	518

7608	[illegible] 50 [illegible] 200 [illegible]	
7609	101	106–102
	101	105–103
7610	97	100–100
[illegible]	101	104–102

7616	497	499	498	507	521	530	527	525
15	488	498	498	505	518	525	524	522
14	489	498	498	503	517	523	518	517
13	500	508	508	511	522	527	529	525
12	490		498	503	517	523	521	518

7616	522	517
15	517	512
14	513	506
13	524	518
12	517	513

7612 Dup of 7603 [illegible]
25 [illegible] 200 [illegible]
Coming

7613	100	100-99
	102	104-101
7614	97	100-99
7615	99	99-102
7616	100	102-105

7621	497	508	521	524	525	522	518	517
20	497	507	522	526	528	527	526	522
19	498	507	522	525	524	523	519	516
18	498	512	528	532	533	[illegible]	529	525
17	498	512	526	530	531	[illegible]	527	523

4-17 Dupe of 7603 [illegible]

[illegible]	99	98-99
[illegible]	95	104-103
7619	102	100-101
7620	104	101-106
7621	102	101-100

Started 1/10/05

21%

7/22 = 5 cups filled with graphite (fl cake) CP abraquat, put in enough so with Reg pressure it will collapse about same — Charge 400 rate, use 8 cups in a 100 cc (2) ~~[illegible]~~ ~~[illegible]~~ ~~[illegible]~~ (use strip) ~~[illegible]~~ Charge continuously, as we want to use a liter of the KOH from time to time to test =

This makes 5 cc cc —

~~7622 5 more cc cc tube~~

~~7622 Get the KOH~~, has one gram of aluminum in KOH,

		Weight of gram and cup	Total Weight
1)	7622	10.809	13.800
2)	7623	10.922	13.920
3)	7624	10.901	13.892
4)	7625	10.855	13.847
5)	7626	10.49	13.485

Started 1/10/05

	7627	Deep of 7622 but I genuine Chum in NO H — graft to 62 Unode —	
	7628	11.44	14.427
	7629	11.4	14.388
	7630	11.268	14.254
	7631	11.25	14.241
	7627	11.548	14.531

7632	132	143	148	163	182	167	48	67	156

1.75 grammes

7/6 [illegible] Lamm [illegible]
thinnest so much smooth pieces to
[illegible] 105 [illegible]
[illegible]

These are made with thicklow packets
of frenne 15/1000 stock –

7637	467	497	493	485	480	380	511
36	475	2c	485	450	450	503	510
35	453	4 4	487	475	467	483	400
34	467	505	505	495	505	510	515
33	467	505	505	455	505	480	516

7633 – Group of Nickels 21% Change + discharge Regular + Change KOH at Each Complete chg + discharge – chg 15 h 200 dis 100

7634	91 94	1-2 102 105-107
7635	92	101-97
7636	93	104-103
7637	91	102-103

7642	463	492	493	487	492	493	500	500
41	464	495	495	490	[illegible]	500	506	507
40	475	492	507	497	[illegible]	493	491	496
39	467	495	477	497	[illegible]	[illegible]	500	500
38	476	490	506	497	[illegible]	497	487	486

7642	458	467	467	487	492	452
41	483	487	499	513	512	452
40	488	490	508	517	517	462
39	472	483	497	509	507	473
38	465	467	493	493	497	470

7638 = 5 mi 21% change + dis
Regular 4 times then put in
Nels 3 rms + Nickels or change dis
4 times more + change Nil 72
always keeping the same pattern
+ keep this up
Chg 15 h 200 dis 100

	2nd 90	101 101
7639	92	102-104
	1st 89	100-104
	2nd 90	102 101
7640	1st 93	105-103
	2nd 92	100-102
7641	1st 90	97-98
	2nd 92	102-101
7642	1st 91	103-101
	2nd 96	98-101

Started 1/13/05
This is to be charged 12 hrs. then removed 12 hrs. Then 3.70.a. will get a sample after each 48 hrs.

7643 = 5 graphite CP, only
3 grams of Nickel strip
Charge + discharge by the Current 400 mA
gloa will take a sample of KOH after 5th Cycle — 21%

	Wt. of grams each	Total Current
7644	11.202	14.190
	10.771	13.760
7645	11.490	14.477
7646	10.829	13.819
7647	10.723	13.710

7652	515	513	513	[illegible]	400	355	498	400
51	518	513	[illegible]	488	367	285	492	367
50	514	511	488	460	367	253	475	267
49	513	513	520	552	379	223	473	167
48	505	487	443	303	313	250	467	300

7652	495	486	522	518	500	500	484	524
51	498	477	517	505	498	490	467	506
50	487	333	373	497	478	485	433	483
49	416	267	500	467	450	493	492	527
48	466	407	507	445	467	473	467	488

7652	517
51	506
50	457
49	517
48	495

7648 5 Reg Ni - .21%
Containing 100 milligrammes.
Cobaltocyanide of Potassium in a cell — if it will dissolve in KOH,
Chg 15 h 200 dis 100

	~~92~~	104-101
7649	91	100-103
7650	92	101-101
7651	90	103-102
7652	93	103-100

7653 = 5 ml 21% Containing
100 milligrams Calcium Potassium Sodium Cyanide
of it could disolve.
Velg 15 h 200 d 5 1 0

7654

7655

7656

7657

[illegible]	[illegible]	527	526	527	517	500	512
[illegible]	[illegible]	528	[illegible]	533	530	520	525
[illegible]	520	535	533	540	533	521	518
[illegible]	520	532	[illegible]	543	533	531	533
[illegible]	528	522	516	533	527	520	525

7662	503	503	508	512
61	510	522	522	528
60	516	525	525	530
59	522	532	530	532
58	517	527	525	528

7658 — 5 ml 21% containing
100 milligrams Chlorimecyanol of
Potassium in 5 mch Cal C —
C R g 15 h [illegible]

7659

7660

7661

7662

7667	497	493	495	493	497	492	490	490
66	495	488	495	[illegible]	498	492	488	490
65	495	494	513	[illegible]	507	498	500	498
64	494	490	495	[illegible]	498	492	490	490
63	493	490	495	[illegible]	498	492	490	488

7667	495	472	490	479	485	487	502	
66	495	473	487	510	491	487	500	
65	493	480	498	522	502	498	512	
64	495	473	508	510	491	487	500	
* 63	457	470	508	508	498	510	488	

7663 5 mi 21.5% Containing
100 milligrams Compound of Platinum
in each cell —
Clinical [illegible]

7664	90	103-103
	93	103-103
7665	92	[illegible]-104
7666	91	[illegible]-100
7667	94	[illegible]-100

7672	518	518	520	517	517	512	510	493	499
71	524	517	525	521	523	517	512	498	497
70	512	513	525	525	517	512	507	497	498
69	517	513	510	525	518	512	510	497	503
68	509	512	516	525	517	507	507	497	49[illegible]

7672	508	515	500	507	507	503
71	508	515	500	505	510	517
70	508	512	497	508	500	498
69	510	520	505	507	512	505
68	510	510	498	513	507	498

7668 5 ki 21% Cyanide
100 milligrams Potassium Zinc
Cyanide dissolved [illegible]
[illegible] 1 [illegible] 100

7669	89	99–103
	94	106–100
7670	91	103–101
7671	92	102–102
7672	92	102–100

7673 5 ml 21% Containing
100 milligrams Potassium Tri Cyanide
in each cell of it will dissolve
Chg 15th 200 dis 100 -

7674

7675

7676

7677

7678 5 ml 21% Containing
100 milligrams Lithium Cerium Graphide
in each dose of it [illegible] —
Chg 15th 200 [illegible] 100.

7679

7680

7681

7682

7683 5 ni 21 p Containing
100 [illegible] Flag [illegible]
Cigarettes [illegible] first
[illegible]
Chg 15 k 200 [illegible]

7684

7685

7686

7687

7692	528							
91	523	522	515	503	521	513	515	518
90	537	538	525	519	540	533	540	541
89	532	532	522	510	537	532	533	533
88	543	537	524	513	532	s.c.	—	532

7691	507	515	513	522
90	531	537	539	542
89	523	531	532	530
88	[illegible]	533	527	527

7688 = 5 ml 21%

Containing 100 milligrams of Potassium Barium Iodide [illegible] the [illegible] of [illegible] CG 15k 2nd dec 100

7689	92	104-103
	90	103-100
7690	91	[illegible] 97
7691	90	102-101
7692	90	102-100

7697	545	525	532	533	[illegible]	543	530	530
96	557	517	523	[illegible]	[illegible]	523	517	517
95	555	533	545	545	[illegible]	545	545	542
94	556	527	540	537	[illegible]	543	533	538
93	548	525	5C.	525	[illegible]	533	523	525

7697	517	532	533	555	527	555	533
96	498	515	525	527	512	533	517
95	542	540	550	565	537	545	565
94	518	528	540	557	528	538	542
93	510	517	525	538	515	533	528

7697	530
96	513
95	542
94	537
93	523

7693 5 ml 21% Containing
100 milligrams Potassium Silver Cyanide
(of it dissolved) in each cc
Chg 15 h 200 dis 100

7697	91	104-96
	90	99-102
7697	91	112-101
7696	91	103-103
7697	90	100-101

7702	527	475	522	523	541	533	540	532
01	526	530	525	524	545	537	537	530
00	533	540	527	530	549	547	542	533
7699	547	540	527	527	552	543	541	533
98	523	524	522	517	546	537	532	526

7702	533	523	532	528	* 540
01	537	523	532	528	532
00	541	530	539	536	542
7699	542	529	537	533	540
98	529	518	527	523	530

7698 5 ml 21% Containing
100 mg Gram Potassium Ammonium
Granule Dry Substance —
Clight [illegible]

7699	91	[illegible] 101
		104-102
7700	90	102-105
7701	92	102-104
7702	93	104-103

7703 — 5 m 21% Carbonating
[illegible]
Gamma [illegible]
CCl4 15 [illegible] 100

7704

7705

7706

7707

7712	514	522	521	507	536	526	522	513
11	522	526	528	510	547	537	537	522
10	520	527	530	519	541	537	540	520
9	518	529	532	523	547	532	540	525
8	510	523	523	517	537	529	533	520

7712	517	507	528	515	522	518	509
11	530	520	537	532	533	528	527
10	527	518	526	526	532	530	520
09	530	520	530	526	532	530	520
08	527	515	523	520	527	523	513

C.O.

7708 5 m 21% Containing
100 milligrams Potassium Cadmium
Cy[illegible] in the crucible of [illegible]
[illegible]
Cl [illegible]

7709	92	[illegible]
	93	[illegible]
7710	93	101 – 103
7711	90	101 – 99
7712	[illegible]2	102 – 105

7717	600	597	585	580	598	592	597	592
16	597	587	583	572	588	580	582	580
15	599	592	583	573	602	592	592	589
14	599	592	584	573	602	594	592	590
13	593	581	583	568	596	588	583	579
	597	589						

7717	597	555	598	591	600	Ran one Ja spot from each cell, wt.
16	585	567	587	577	583	two 2.5 g. pieces in
15	592	575	590	585	593	same original
14	592	575	590	584	592	solution. I hung
13	565	567	583	577	582	wires, and some
						are much more

than others. - W. E. H.

7717	Ja	590	600	593		600		550	600
16	"	593	590	550		560		550	593
15	"	593	867	860		1070		1127	1160
14	"	943	963	867		1107		1127	1160
13	"	863	963	850		1133		1127	1160

Calliper after 1st run

7717	105	106
16	100	101
15	100	102
14	100	102
13	100	105

Soaked 7/10 24 hrs in KOH + 2 hrs in H_2O_2 3% assembled with new Ja in reg. KOH and ran as follows, →

7713 - 5 ni 24% Contains 100 milligr. ferromagnetic of Potassium in each cell. Charge 15 h 200 div 100

7714	90	102-103
7715	92	102-103
7716	92	102-103
7717	94	102-103

7717	Ja	512	520	513	500
16	"	497	492	478	483
15	"	513	523	515	503
14	"	512	520	515	500
13	"	497	507	495	488

7722	479	497	492	468	483	573
21	480	497	495	468	483	577
20	480	497	487	487	480	577
19	485	502	467	487	510	580
18	487	507	467	487	513	584

7718 – 5 ml 21% Containing ~~[illegible]~~ milligrams Benzoic acid in Each cell –
Clg 15 h 200 Ans 100

7719	90 93	103–103 103–101
7720	90	104–103
7721	90	102–102
7722	92	103–103

7727	[illegible]	497	494	490	500	502
26	482	493	495	490	477	[illegible]
25	476	495	485	490	433	[illegible]
24	482	[illegible]	498	490	[illegible]	[illegible]
23	479	498	493	489	483	513

7723 — 5 ml 21% Cacl [illegible]
~~[illegible]~~ one gram Phthalic acid,
(Dissolved [illegible] mono) in each
cacl —
Cl g 15 k 200 [illegible]

7724	94	[illegible]
7725	90	[illegible]
7726	89	[illegible]
7727	90	[illegible]

7732	487	497	500	497	497	487	487
31	500	509	513	510	508	498	497
30	467	465	467	463	467	447	433
29	458	453	467	480	483	467	465
28	487	497	500	487	497	483	487

7728 5 ml 21% Containing
250 milligrams of (Hydrochlorite rep.)
in 5 c.c. of H O
ask Guva for it —
Chg 15 h abs dis 100 —

7729

7730

7731

7732

7737	0	0
36	0	0
35	0	0
34	0	1
33	0	2

7733 — 5 mi B.2 grams
nickel through 20 mesh —
put in 21% Cl containing
500 milligrams Chloroform in
Eight cc —
Charge 15 h zero dis 100 —

7734	95 98	108-108 112-110
7735	97	107-109
7736	98	104-112
7737	97	102-107

All calibrated Large

7742	0	0
41	0	0
40	0	0
39	0	0
38	0	0

7738 = 5 Ni 32 green nickel hydroxide through 20 mesh put in 21% Chromic acid 500 milligrams Iodide of Potassium Chg 15 h 200 ohm 100 [illegible]

	96	106-109
7739	96	107-109
7740	101	113-115
7741	109	109-111
7742	101	113-114

Started 1/13/05

This is to be changed 12 hrs. then removed 12 hrs. Then put g.w.a. mill get a sample each 48 hrs. - W.E.H.

7743 – 5. graphite [illegible]
3 grams [illegible]
[illegible] 4 [illegible]

	Weight paper & sample	Total Weight
	11.517	14.507
7744	11.655	14.655
7745	11.387	14.382
7746	10.658	13.656
7747	10.560	13.547

14.382
11.387
2.995

7754	267	279	320	337	312	320	300	302
51	190	247	333	317	302	307	300	306
50	193	311	328	330	310	323	305	312
49	132	228	307	300	300	287	303	293
48	153	222	324	330	307	307	310	320

7752	308	300
51	310	298
50	317	307
49	295	287
48	313	308

Thro 20 mesh

7749 — 5 green Nickel Hydroxide, 3 grams Compute 200
Soak 6 hours thru 33 +
Charge in 33 — Then change the KOH, + put in + run in 21%
Charge 15 h 200 ohms 100

7749	97 95	98-102 101-97
7750	101	104-104
7751	93	102-98
7752	98	100-103

7757	320	332	315	350	312	310	305	297
56	288	320	293	307	300	297	300	283
55	312	318	298	333	298	312	305	299
54	337	318	293	323	275	297	292	267
53	350	320	240	267	260	267	257	238

7757	275
56	270
55	273
54	265
53	233

Thro 20 mesh

7753 5 grain hydroxide 3 gr
Soak 6 hours in 33% — Compt 100
Then take out + put in 21%
Run in 21%
Chg 15 h 200 dis 100

7754 97 101-99
78 125-122

7755 78 [illegible]-101

7756 97 [illegible]-99

7757 97 [illegible]-99

7762	287	342	308	316	315	313	308	287
61	228	340	300	324	300	300	305	289
60	167	142	143	157	147	142	163	128
59	220	340	297	310	302	300	298	282
58	273	347	312	350	303	310	305	285

7767	297
61	297
60	141
59	280
58	273

Ilmo 20 mesh

7758 — 5 grams hydroxide Ni
3 grams — 200 comp. Sodek 24 hours in
33% in Nickel chloride hot,
put in cells in 21% + Sum
chg 15 h 200 dis 100

7759	94	103-108
	98	105-99
7760	96	110-100
7761	97	101-102
7762	98	105-100

[illegible]	180	250	242	313	257	233	246
66	177	250	203	213	257	243	253
65	175	250	190	267	223	193	227
64	157	203	[illegible]	267	253	210	230
63	[illegible]	220	[illegible]	220	197	190	207

7767	236	247
66	250	257
65	208	217
64	225	230
63	205	208

Thro 20 mesh

7763 – 5 grs sen hydroxide
3 grms – Compt 200 Soak hot 33%
24 hours in Nickel dish –
Then put in Cells with
33% KOH change after
charging – rinse Vm 21%
Chg 15h 200 dis 100

7764	104	103-107
7765	97	101-103
7766	97	101-103
7767	97	98-100

This 20 meal

7768 – green Hydroxide
3 grms. Carrots 200.
gave to Edison to dip in Hemlock
3 times – 21%
Chg 15 h 200 dis 100

7769	77 75	102–103 102–101
7770	77	103–104
7771	78	104–105
7772	77	99–100

Thro 20 mesh

7773 green Hydroxide
3 grm Coming to 200 —
give to Edison to soak in
Chloride of Ammonia with
Ammonia Then 21%
Rhy 17th 200 dia 100 —

7774	97	102-108
7775	[illegible]	[illegible]
7776	98	101-103
7777	97	105-102

7782	288	347	347	337	327	327	305	287
81	277	347	343	330	330	313	305	273
80	275	332	326	309	333	298	292	260
79	327	332	333	322	325	310	300	272
78	317	321	326	320	322	300	295	292
	297	336	335					

7782	262	273	290	293	288	295	293	
81	244	243	280	290	273	283	283	
80	244	243	262	S.C.	—	280	264	
79	273	262	267	287	262	275	270	
78	262	253	296	287	275	280	273	

5)1677
335

5)1479
29

1679
30-24

Thus 20 mach

7778 = Green hydroxide
3 grms Corrugate 200 –
21 1/2 Containing 25 milligrams
Cyanide of Potassium each cell
Chg 15 h 200 dis 100

7779	99	102-101
	93	96-100
7780	95	96-105
7781	95	104-97
7782	97	99-104

7784	287	310	305	312	320	310	305	293
86	318	300	300	294	300	298	288	282
85	303	278	283	278	250	255	287	255
84	233	260	272	273	248	274	294	257
83	312	325	325	323	323	[illegible]	293	287
	300	299	299					

7787	267	247	283	290	260	287	287
86	242	247	267	267	258	263	258
85	240	200	233	233	233	233	231
84	244	225	247	267	258	245	238
83	244	243	278	290	273	253	275

5 | 1495 / 299

5 | 1453 / 290

5 | 1573 / 299

Thro 20 mesh

7783 – Green hydroxide – 3 grams Cetrimide 200 at 21% Contending 50 milligrams Cyanide of Potassium – each cell. Chg 15th 200 dis 100

7784	97	104–97
7785	102	103–100
7786	103	102–104
7787	100	104–109

7792	[illegible]	267	245	250	260	243	243	233
91	310	326	326	315	317	307	293	278
90	310	348	342	328	330	318	303	278
89	310	343	337	328	337	317	310	285
88	332	343	340	333	338	317	315	297
	302	325	318					

7792	233	200	250	220	215	215	215	
91	238	242	267	267	267	275	263	
90	242	242	267	277	273	282	275	
89	245	247	278	277	267	287	277	
88	280	255	255	283	283	288	270	

5 | 1590
318

5 | 1627
325

5 | 1512
302

Thro 20 minutes

7788 – Green Hydroxide
3 grms Cosmegen 200 c.c.
21% of Centaurea 100 milligrams
Cyanide of Potassium each cc
Chg 15 h 200 Dec 100

7789	95	100 – 98
	95	100 – 100
7790	93	101 – 98
7791	101	102 – 106
7792	93	95 – 103

7797	240	300	307	297	333	318	270	283	
96	218	300	287	292	292	285	267	S.C.	
95	233	290	308	308	337	295	275	290	
94	167	287	265	267	300	250	248	250	
93	198	282	292	303	345	292	277	290	

7797	276	278
96	220	242
95	250	263
94	240	247
93	263	283

Thio 20 mesh

7793 = Green hydroxide
3 grms Corrugate 200
Soaked in 33 hot in Medical
dash 24 hours, then put
in 21/0 in Cells, containing
100 Amalgam Cyanide of Potassium
Chg 15 lb 200 lbs 100 each cell

7794	97 95	103-106 99-102
7795	98	103-102
7796	95	96-101
7797	96	102-102

7802	303	297	307	310	318	300	293	295
01	325	297	293	310	313	300	293	290
00	340	310	295	322	325	312	300	307
7799	310	312	317	318	322	312	300	302
98	320	315	317	315	317	305	305	292
	319	306	306					

7802	278	267	268	280	278	278	267	27[illegible]
01	278	255	277	280	278	278	272	27[illegible]
00	283	264	S.C.	—	—	—	278	27[illegible]
7799	270	267	277	292	288	287	287	28[illegible]
98	260	245	270	280	280	278	268	27[illegible]

7802	270
01	273
00	277
7799	200
98	265

C.O.

5 / 1529 / 306

1531 / 306

1596 / 319

Thro 20 mesh

7798 - Green hydroxide 3 grms 200 Centrigrade

21 g/l Containing 50 milligrms Cyanide of MERCURY each cell

Chg 15h 200 dur 100 -

7799	95	99-102
	94	98 102
7800	99	104-98
7801	96	101-98
7802	94	101-99

7803	133	130	120	111
04	146	[illegible]	120	110
05	142	[illegible]	120	93
06	140	147	133	120
08	122	[illegible]	133	115

7

Thro 20 mesh

7803 - Greenhouse soil
3 gms 200 corrugata
Soak 24 hours hot in
33% cut in. Cell 33% change
+ Unchanged in 33%
Chg 15 h 200 chs 100

7804	94	99-100
	97	103-100
7805	95	99-100
7806	97	104-102
7807	97	100-100

7812	80	43	50	63	66	67	51	51
11	80	43	55	67	67	72	58	57
10	80	42	65	66	65	71	58	56
9	77	40	65	68	67	73	61	58
8	80	41	72	71	68	72	61	58

7812	56	56	59
11	58	55	60
10	58	58	5.c.
09	61	61	63
08	61	60	61

Thru 20 mesh

7808 = 5 grams Hydrox
1.75 - new sunbath due oil Corr
150 S 125 Cor - soaked 33%
all night warm — then
put in 21% clay 15 h 200 dev 100

7809	66	75 - 73
	67	71 - 74
7810 bad mud -	68	74 - 73
7811	65	66 - 71
7812 - b.s. spot =	75	74 - 79

7813 | 81 | 81 | 7 | 83 |

7813 = One nickel,
Acheson crystal graphite
Soaked Nitric acid [illegible]
times - 2.430 gms
its awful Sticky - 21/0
Chg 15 1 2 d 0 [illegible]

[illegible] 90 + 91

Rural 500

7821	2332
20	8[illegible]
19	833
18	833
17	833

7814	833
15	46
14	81
13	
12	

7814

S.L. # 38[illegible] [illegible] 88 + 83

7815

S.L. # 3845 [illegible] [illegible] + 87

7816

S.L. # 38[illegible] [illegible] 8[illegible]

7817

[illegible] # 3847 65 8[illegible]

7818

S.L. 3848 65 83 + 85

7819

S.L. # 38[illegible] 65 84 81

7820

S.L. # 38[illegible] 70 8[illegible] 87

7821

S.L. # 3851 65 85 + 87

Memorandum.

Dissolving [illegible] of [illegible] in $Mn(OH)_2$ our Reg —

Al_2O_3 0.0212 %

Fe_2O_3 0.0261 %

In a pocket with 2.560 milligrams there is in the $Mn(OH)_2$ Ppt of

.54 of a milligram Al_2O_3

.668 " " Fe_2O_3 —

January 11th 1905

[illegible]

2800	222	233	274	275
20	221	231	292	282
24	205	258	308	292
23	223	263	280	275
22	217	248	267	262

7822 – Ni with 3 grams
green hydroxide 21% Containing
150 milligrams Cyanide potassium
Each cell – Changes the Solution after
1st discharge pH in only 21%
KOH.
Chg 15h 200 dis 100 –

7823	95	106 – 106
	98	105 – 104
7824	[illegible]	112 – 110
7825	[illegible]	108 – 105
7826	95	107 – 107

7821	123	250	250	233
30	238	255	275	267
29	238	315	327	295
28	233	255	290	277
27	250	247	247	285

7827 Duplicate of 7822
Except 100 Milligm. Cyanide of Pot
in each Cell
Before + Change the Solution
after 1st Run —

7828	77	107-105
7829	95	104-100
7830	98	105-109
7831	97	1[illegible]-1[illegible]

7836	598	593	[illegible]	[illegible]	587	578	583	583	595
35	598	[illegible]	[illegible]	[illegible]	587	575	583	582	593
34	580	[illegible]	[illegible]	[illegible]	577	543	566	563	5[illegible]
33	583	[illegible]	[illegible]	[illegible]	573	565	567	565	573
32	385	[illegible]	[illegible]	[illegible]	405	390	398	400	400

7836	578	588	578	585	584	593	587
35	573	584	575	575	581	592	582
34	558	567	558	557	567	577	567
33	562	570	560	566	567	578	567
32	382	395	383	400	393	398	393

7836	587	610	595	602	603	612	575	
35	585	612	588	602	602	606	571	
34	566	592	557	583	589	586	560	
33	563	590	555	590	591	590	560	
32	400	417	400	407	402	406	394	

7836	600	598	609	605	665	616	605	
35	597	596	607	600	659	608	605	
34	576	579	583	565	642	592	587	
33	578	584	585	589	646	595	587	
32	397	403	402	411	462	412	405	

C.O.

7832 S. Reg. No. 21/
Containing 2/50 mlg/ Ferrocyanide of
Potassium 1 - in water
Chg/15 h 200 ins 100

7833	94	98-97
	92	103-104
7834	93	104-102
7835	96	100-103
7836	93	102-106

7841	532	530	[illegible]	531	529	517	520	518
40	518	[illegible]	519	[illegible]	517	505	508	508
39	525	529	[illegible]	[illegible]	530	517	520	518
38	525	[illegible]	[illegible]	[illegible]	523	512	514	510
37	525	520	[illegible]	[illegible]	523	512	515	518

7841	528	509	528	500	525	524	533	519
40	523	494	512	508	512	509	520	508
39	532	508	525	517	522	520	532	518
38	527	500	518	505	513	513	525	504
37	526	505	522	512	522	517	530	518

7841	525	532	507	530	517
40	512	523	500	522	498
39	525	532	507	530	508
38	510	523	500	523	497
37	518	528	505	523	508

C.6

7837. 5 Reg No 21% Containing
25 milligram [illegible] [illegible]
Chg 15 h 200 dis 100 [illegible]

7838 [illegible] 100 – 102
89 [illegible] – 101

7839 [illegible] [illegible] – 99

7840 [illegible] [illegible] – 96

7841 [illegible] 102 – 104

7846	597	[illegible]	[illegible]	587	600	596	607	601
45	617	[illegible]	[illegible]	[illegible]	605	606	616	609
44	[illegible]	612	[illegible]	587	606	606	609	604
43	617	[illegible]	[illegible]	[illegible]	603	602	608	602
42	617	611	597	587	603	[illegible]		

7846	604	605	Ran one 3e pocket from
45	612	613	each cell with two new 3.5
44	608	587	7/10 in some original solution
43	606	607	3 they all have bad curve.
42			although the amp-hrs. to 1V.

are pretty good. Some are affected more than Others. – W.E.H.

7846 3e	733	867	860	Red in Neg KOH	1088	KOH	1130	1163
45 "	893	970	990		1137	[illegible]	1172	1160
44 "	70	467	693		1172	[illegible]	1154	1160
43 "	890	963	933		1144	[illegible]	1137	1163

Calipered after

	1st run	10th run
7846	101-104	101-104
45	103-103	104-105
44	100-104	104-104
43	102-109	105-103
42	99-101	—

Soaked 7/10 [illegible]
hrs. in KOH then [illegible]
hrs. in H_2O. 3 hrs [illegible]
assembled with [illegible]
3es in neg. KOH
and run as
follows, —

7846 7/10	497	508	500	498
45 "	507	512	503	493
44 "	515	520	513	490
43 "	503	512	493	500

7842 – 5 Reg III – 21/5
Containing 100 milligrammes
Red prussiate Potash (ferricyanide K)
in each cell –
Chg 15h 200 dis 100

7843	91	100-105
	93	103-98
7844		[illegible]
7845	92	[illegible]
7846	[illegible]	[illegible]

7851	643	647	573	533	533	563	555	500	552
50	590	600	510	332	540	560	550	467	540
49	643	667	483	307	417	510	523	536	543
48	660	653	500	13	S.C.	467	560	467	540
47	627	653	500	233	400	467	455	433	461

Note: - After second or third run curve breaks and runs along at low voltage. Settlement results to IV. - W.E.H

7851	550	542	500	495	538	433	500	
50	543	S.C	300	432	500	400	400	
49	550	563	557	565	567	550	572	
48	557	552	500	493	500	445	453	
47	468	483	477	495	483	445	453	

7851	527
50	499
49	558
48	530
47	483

C.D.

7847 - 5 Reg No 21/5
Containing 100 Milligrammes
Nitroparaffin of Dulcin in P.B.C.
in 21 c.c.
Clog 15th 200 c.c. 100 -

7848	91	[illegible]
	92	[illegible]
7849	94	[illegible]
7850	90	[illegible]
7851	91	[illegible]

7856	487	493	500	497	505	504	519	507
55	493	497	513	517	512	512	519	517
54	490	495	500	490	498	497	499	500
53	488	492	500	490	498	497	497	503
52	480	490	500	499	505	508	520	511

7856	504	502	498
55	508	498	497
54	497	497	497
53	495	495	487
52	508	507	503

7852 5 Reg Mi 21%
Containing 100 Milligrams
Oxamide - in each tube
Chg 15th 200 Lin 100 -

7853.

7854

7855

7856

7861	493	[illegible]	[illegible]	500	333	488	333
62	500	500	433	267	267	475	333
[illegible]	503	519	519	267	200	467	300
59	[illegible]	518	[illegible]	400	213	570	333
58	483	520	300	240	183	413	247

7861	367	67	425
60	333	63	402
59	300	61	358
58	367	61	383
57	267	112	300

This has a bad curve. The amp-hours to .50 V. are about regular.

7857 = 5 Reg No 21 p
Containing 100 milligrams
of Co6 Cattdeyn [illegible] of Potassium
Lock [illegible]
[illegible]

7858	93	104-102
7859	73	104-104
7860	[illegible]	[illegible] 103
7861	[illegible]	119

7866	497	510	510	479	325	495
65	[illegible]	510	511	458	325	497
64	490	500	512	463	400	493
63	[illegible]	510	508	472	451	493
62	503	[illegible]	508	443	400	494

7866	490	400	497	495	496	
65	497	367	491	400	493	
64	496	400	477	428	498	
63	492	425	492	463	493	
62	499	333	496	428	495	

7862 – 5 Reg No 21/.
Containing 100 milligrams
Cobaltic [illegible] of [illegible]
Chg 15 h 200 dus 100 —

7863	91	103–102
	91	101–101
7864	[illegible]	98–100
7865	[illegible]	[illegible]
7866	[illegible]	[illegible]

78 71	190	200	253	276	267	248	253	25[illegible]
70	143	200	233	260	230	230	247	23[illegible]
69	178	213	265	290	297	267	274	271
68	194	173	233	267	283	248	257	261
67	195	233	267	287	290	267	269	261

7871	250	Solution filtered
70	237	232
69	275	267
68	257	246
67	260	253

7867 5 green nickel hydroxide
3 grammes, 21% containing
100 kilogrammes of ferrocyanide of
potassium — [illegible] lot
Chg 15 [illegible]

7866	96 93	127–127 123–123
7869	95	[illegible]
7870	95	[illegible]
7871	97	[illegible]

7876	557	527	532	540	529	525	513	506
75	505	516	505	533	515	517	498	497
74	549	528	531	550	537	533	522	514
73	570	537	537	557	542	539	528	523
72	551	549	548	567	554	552	545	533

7876	513	516	525	523	526	532	508
75	495	497	508	500	498	505	490
74	520	519	530	523	527	532	508
73	527	527	538	528	528	540	518
72	540	540	549	538	547	558	533

7876	527	515
75	507	497
74	532	522
73	543	525
72	550	533

C.O.

7812 5 Reg M 21/2
Containing 25 Milligrams
Ferrocyanide of Potassium
Charge 1 k 200 Dm 100

7873	73	101-102
	72	102-104
7874	72	103-100
7875	71	102-101
7876	73	102-103

7881	544	544	532	542	547	546	561	559
80	[illegible]	[illegible]	[illegible]	[illegible]	496	495	510	513
79	[illegible]	[illegible]	[illegible]	[illegible]	523	527	535	540
78	[illegible]	514	537	[illegible]	541	540	547	553
77	[illegible]	545	537	552	540	539	547	550

7881	552	533	553	545	554	559	546	555
80	518	500	518	527	527	[illegible]	512	507
79	537	520	533	531	527	[illegible]	528	535
78	550	532	548	543	540	562	543	54[illegible]
77	547	537	548	542	538	561	540	54[illegible]

7881	552
80	487
79	530
78	547
77	542

C.D.

7877 = 5 Rupees 21/- —
Containing 12 Indigo / ferrocyanide
Palassium 2 ounces I
Chg 15 h zero [illegible] 100

7876 73 103-103
72 103-103

7879 [illegible] [illegible]-102

7880 [illegible] 100-99

7881 [illegible] [illegible]-103

7662

2-21-20

B Hes on 1:30 PM
Off 4:30 AM

Notebook, N-05-01-31

[illegible]	68	[illegible]	133	123	167	107	93	67
[illegible]	67	133	122	120	156	95	93	67
[illegible]	75	78	[illegible]	130	167	—	—	-
[illegible]	[illegible]	165	133	123	167	97	95	67
[illegible]	87	165	150	148	183	142	112	87

7886	67	67	61	78	67	67	35	67
85	67	67	55	67	67	67	41	67
84	—	—						
83	67	75	65	67	67	67	45	67
82	87	78	75	88	100	100	38	67

7886	46	97	67	67	50	97	50
85	53	98	68	69	51	97	50
84							
83	53	97	67	68	53	97	50
82	60	98	68	67	67	97	81

C.O.

7882 = 5 gram nickel hydroxide 3 grams 21% containing 10 milligrammes of aluminium, Smooth press 100 Corrug 150 Chg 15 h 200 dis 100

7883 [illegible]

7884 [illegible]

7885 [illegible]

7886 [illegible]

7[illegible]	43	90	110	98
8[illegible]	77	103	170	152
8[illegible]	43	117	135	155
88	77	130	152	160
32	37	5[illegible]	10[illegible]	102

7887 5 m Green nickel hydroxide
3 grms 21/1 Cerotaining 10 milligrammes
of Iodide of Potassium — [illegible]
Chg 15 h 200 dis 100

7888 [illegible]

7889 [illegible]

7890 [illegible]

7891 [illegible]

[illegible]	125	147	203	213	237	222	200	150
92	155	203	265	222	243	192	200	193
91	118	157	183	167	158	183	142	132
90	162	232	242	213	220	208	200	183
89	175	263	272	247	270	267	255	217

7896	183	185	190
95	193	200	200
94	133	145	150
93	183	183	188
92	220	228	233

C.O.

7892 - Group 5 green nickel & [illegible] 3 grms to 62 charged list 125 fakir 33%. 5 hours 200 rate, taken out ~~[illegible]~~ ~~hours cold~~ allowed cool 5 hours - then charged again 5 hours same rate. Taken out + cooled 5 hours put back charged again 5 hours same rate. Then KOH charged 15 9102 21% + then discharge 100 rate + thereafter chg 15 h 202 dis 100 in 21%

7893 [illegible] 100-101
[illegible] 103-104

7894 [illegible] 125 111

7895 [illegible] [illegible]-107

7896 97 106-107

7[illegible]	195	293	118	297	333	277	273
00	156	250	208	256	297	267	267
7[illegible]	168	262	208	269	257	265	263
98	175	276	220	279	308	288	283
97	132	233	237	238	253	257	237

7901	283	277	265	267
00	245	259	245	250
7899	267	263	243	250
98	295	278	258	269
97	212	237	233	215

C.O.

7897 = Group 5 Green nickel hydroxide
Charged in 21% Containing 100 milligms
Ferrocyanide Potassium Charge —
against a nickel strip — then
Soak in KOH 21% Second Charge
together with Reg mono + new
in fresh 21%
Chg 15 h 200 div 100

7896	96	108–110
	95	137–147
7899	96	[illegible]
7900	96	[illegible]
7901	[illegible]	[illegible]

7902 5 Reg Ni to be soaked by Edison in 21% containing 250 milgms Cyanide of Potassium. Soaked for 1/2 hour then put in fresh KOH, permit KOH Come out, then assemble [illegible] cells 21% KOH, no Cyanide —

Chg 15h 200 dis 100 —

7903	90 91	102-102 [illegible]
7904	90	[illegible]
7905	92	102-101
7906	92	[illegible]

7911	83	123	167	178	170	175	177
10	112	167	177	217	210	197	207
09	103	150	S.C.	185	200	193	200
08	117	175	174	215	210	205	210
07	120	167	177	200	200	193	200

7911	175	177	182	183	183	185	167
10	207	203	205	210	208	195	184
09	192	200	200	205	205	193	195
08	205	208	210	212	212	200	192
07	187	200	195	198	197	187	178

7911	167
10	193
09	193
08	195
07	183

C.O.

7907 = 5 M - Rolled 842
3.2 gram cake No 2 to Tobe
Nickel foil made by electrolysis
rolled wet with water - 1 [illegible]
Chg 15h 200 dis 100. [illegible] 75

	81	93 - 97
7908	85	97 - 94
7909	80	[illegible]
7910	80	[illegible]
7911	85	94 - 92

[illegible] Smith

Rolled [illegible]

7916	S.C.	33	275	277	267	265	248
15	234	263	274	277	265	265	248
14	247	263	267	267	260	265	245
13	247	270	267	267	265	265	237
12	233	263	257	267	260	265	253

7916	242	248	243	233	233	233	227
15	243	248	243	242	237	236	227
14	237	239	233	233	237	237	220
13	247	243	233	243	240	240	230
12	240	237	233	232	235	237	223

7916	213	220
15	218	224
14	212	215
13	213	223
12	212	220

C.O.

7912 = Duplicate of 7907
but rolled dry

7913	91	100 — 98
	90	98 — 100
7914	87	98 — 100
7915	96	102 — 99
7916	90	102 — 99

Rolled [illegible]

7921	82	113	175	192	188	183	187
20	67	120	175	192	188	180	187
19	85	120	175	167	167	167	167
18	83	125	175	177	172	172	113
17	S.C.	0	100	178	182	178	187

7921	182	192	193	188	195	198	183
20	177	190	177	187	192	192	178
19	162	187	185	167	172	175	162
18	170	190	188	177	177	178	167
17	172	190	243	180	182	183	173

7921	175	182	
20	175	175	
19	167	163	C.O.
18	167	163	
17	167	175	

7917 Dup of 7907 - but moistened with ammonia to roll

7918	78	[illegible]
7919	81	92 — 90
7920	80	91 — 92
7921	79	[illegible] — 91

7922 = Dup of 7907
but Edison to work model of [illegible]
on with [illegible]

7923

7924

7925

7926

7927 =	S.L. 3955	C. 81	E. 85-86
7928 =	S.L. [illegible]	C. 68	E. 84-85
7929	S.L. 3958	C. 72	E. [illegible]
7930	S.L. 3955	C. 73	E. 85-86

7935	492	513	567	549	555	577	533	562
34	432	517	[illegible]	505	s.c.	—	—	470
33	440	517	461	522	514	518	453	467
32	492	493	[illegible]	550	552	565	500	533
31	578	562	532	643	665	694	632	672

7935	532	572	563	573	567	593	550	539
34	s.c.	490	500	527	553	593	597	525
33	447	469	467	484	500	498	530	464
32	510	533	533	558	558	558	567	541
31	641	667	661	683	693	713	720	704

7935	513	500	488	512	518	533	508	
34	563	557	577	587	602	643	597	Socket adjust
33	433	433	433	433	425	436	414	
32	508	492	500	508	505	518	490	
31	678	649	698	690	680	715	661	

End.

Caliper after 1st run.

7935	123 - 120
34	127 - 123
33	128 - 122
32	126 - 125
31	123 - 122

7931 Group 5 Rec W[illegible]
3.2 gauge cache 32% Copper [illegible]
Calliper [illegible] Thermometer Thermometer
.005 Reg [illegible]
Obs. 15h 20m obs 100.

	90	10.5-104
7932	89	102-105
	91	[illegible]
	91	[illegible]
	90	105-101

7940	93	139	125	111	108	117	100	103
39	87	119	114	109	109	103	100	97
38	102	134	129	130	100	108	110	103
37	87	132	122	133	110	108	117	103
36	102	132	128	119	117	107	132	103

7940	108	133	100	113	112	112	108	104
39	100	133	105	100	103	107	100	100
38	108	133	105	108	112	112	108	100
37	108	133	105	108	108	110	110	100
36	108	112	103	110	112	113	110	100

7940	112
39	103
38	109
37	105
36	112

C.O.

7936 5 nickels Green
Hydrate 3 grms in 3 pockets
to one grid Reg Press
Chg drum in 33%
Chg 15 hrs @ 200 Run @ 100

7937	94 92	121 – 121
	93 93	123 – 122
	94 91	124 – 122
	93 93	125 – 12[illegible]
	93 93	127 – 125
	93 93	127 – 124
7938	95 93	126 – 124
	93 93	125 – 125
	92 92	124 – 125
7939	93 94	126 – 126
	94 91	124 – 123
	91 91	124 – 124
7940	93 93	127 – 125
	93 93	125 – 126
	92 92	126 – 125

[illegible]	18	248	272	237	253	258	238
[illegible]	19	267	283	267	258	258	265
[illegible]	[illegible]	232	257	161	200	s.c.	200
[illegible]	[illegible]	297	287	259	253	258	265
[illegible]	[illegible]	163	199	200	263	258	265

7941.5	237	240	252	257	258	260	250
44	240	253	267	267	257	263	255
43	200	233	233	233	233	238	238
42	242	242	264	267	250	253	250
41	233	255	192	200	203	205	217

Qd in 33 % KOH.

7945	237	222	233	302	267	255	217
44	245	237	240	313	277	267	233
43	277	213	223	288	265	267	240
42	238	230	233	307	277	267	233
41	217	212	213	280	235	255	217

7945	216	223	
44	225	227	
43	267	257	C.O.
42	251	245	
41	213	200	

7941 5 nickels Green Hydrite
3 spins in 3 pockets [illegible]
grid Reg press
chg & mix in 21%.

	Chg 15 hrs @ 100	Run @ 100
	93	105 — [illegible]
	93	105 — [illegible]
	92	103 — [illegible]
7942	[illegible]	102 — 104
	93	102 — 105
	94	102 — 105
7943	[illegible]	97 — 97
	93	102 — 102
	91	101 — 102
7944	94	104 — 103
	92	102 — 105
	91	105 — 105
7945	93	105 — 106
	94	105 — 106
	93	106 — 106

[illegible]	[illegible]	226	257	250	255	217	233	
[illegible]	[illegible]	133	124	117	122	117	115	
7947	238	233	232	257	267	245	253	238
46	100	105	105	105	130	130	110	115

7947	277	217	226	C.O.
46	108	100	115	

7946. O w with 1 in 3 grams [illegible] of 1 gram [illegible] neg. pressure put up with [illegible] 33 [illegible] lbs [illegible] stock [illegible]

[illegible]	97	102–107
[illegible]	97	102–107
[illegible]	95	107–115

7947. [illegible] 7946 [illegible]

6 calipers [illegible]	93	107–112
[illegible]	92	105–110
[illegible]	91	102–102

[illegible] | [illegible] | [illegible]

7952	500	490	497	483	497	492	500	499
51	120	465	467	483	413	438	483	492
50	433	465	498	483	487	488	493	493
49	500	483	493	483	492	488	495	490
48	500	483	490	483	487	487	493	487

7952	492	498	482	495	513	498	
51	498	482	467	475	496	482	
50	487	493	498	497	508	498	
49	487	493	488	488	507	498	
48	480	487	482	483	495	487	

7948.

Grant of 5-Reg 3.2 gm lit.
made up with water reg flavored
F.C. ch & rum reg. rum
2% KOH containing .250 gm mash cell.
Mellitic acid prepared by Glass Farm
Honey stone.
after reg number rum fed on
small inoculance.

	90	102 — 101
7949	92	104 — 104
7950	92	103 — 104
7951	89	101 — 103
7952	92	102 — 103

7755	S.C.	387	505	512	500	510	516
56	500	517	518	520	508	517	516
55	500	522	423	522	515	522	522
54	496	510	510	508	500	507	510
53	510	522	520	522	503	514	511

7752	506	508	518	508	507	500
56	512	510	518	505	493	492
55	516	517	525	512	513	509
54	515	505	518	499	498	499
53	513	509	521	509	507	510

C.O.

3.2 grams

7753 — 5 [illegible] new mill [illegible]
die — [illegible]
Corrected [illegible]
[illegible] 20 [illegible] 21 1/2

7754	[illegible]	[illegible]	106
7755	97	[illegible]	105
7756	[illegible]	[illegible]	[illegible]
7757	[illegible]	[illegible]	[illegible]

Note used regular [illegible]
[illegible] and
[illegible] die [illegible]

7962	508	520	524	521	504	515	517
61	S.C.	157	175	262	422	500	504
60	500	517	520	518	509	517	510
59	504	517	520	527	512	519	521
58	433	417	430	433	428	436	423

7962	511	513	522	513	511	512
61	500	507	518	500	500	500
60	500	497	510	504	500	499
59	513	515	525	516	513	509
58	435	429	433	427	430	422

C.O.

7958 Dup - 0.7953 125 alum
Coinjecte

7959	95	103 - [illegible]
	96	115 - [illegible]
7960	95	106 - 125
7961	[illegible]	102 - [illegible]
7962	96	104 - 107

7967	487	497	489	500	473	483	473	
66	300	279	267	267	245	245	243	*
65	504	520	518	515	506	512	518	
64	508	520	522	518	510	517	517	
63	508	519	527	519	510	518	517	

* 7966 runs back because a great deal of the ink may have come out of the 7967 good, so that you can see the two cups together in the middle. I think it is not repeat enough but one of the edges of the outside cup is not burned over good. – W.E.H.

7967	485	485	495	474	479	476	
66	–	–	–				
65	508	505	520	504	504	504	C.D.
64	511	513	521	508	508	511	
63	513	516	524	510	511	512	

7963. Dup of 7953
Except Corrugation 150
values —

7964	96	[illegible]
	95	[illegible]
7965	97	107 – 105
7966	95	103 – 109
7967	96	104 – 105

7972	514	517	530	529	522	527	525
71	509	514	517	517	511	513	513
70	511	530	537	539	527	533	533
69	504	516	512	512	505	510	512
68	509	522	517	519	512	519	521

7972	517	520	529	518	521	518
71	509	516	523	508	509	505
70	529	532	541	529	530	530
69	508	511	523	507	504	503
68	519	519	528	513	516	509

C.O.

7968 Dup of 7953 —
Except Conjugate 200
almost —

7969	94	105 — [illegible]
	95	106 — [illegible]
7970	94	104 — 104
7971	94	101 — 109
7972	94	103 — 101

7977	517	533	530	530	525	529	530
76	512	529	528	528	521	528	529
75	507	523	524	520	514	520	522
74	509	515	524	517	512	520	521
73	517	537	542	547	536	543	542

7977	525	527	537	532	512	530	
76	524	525	537	519	518	522	
75	516	517	527	507	510	512	C.O.
74	515	517	527	514	512	515	
73	525	538	547	537	537	537	

7973 Dup of 7953
Except Corrugate
250 actuals

7974	95 93	109 — 107 110 — 100
7975	92	104 — 103
7976	92	104 — 105
7977	93	106 — 103

7982	143	165	133	153	157	163	147
81	133	165	143	151	150	167	140
80	117	162	147	165	145	S.C.	S.C.
79	133	165	147	154	153	162	143
78	120	165	130	132	136	163	120

7982	142	148	143	145	142	144	138
81	137	142	137	138	139	140	132
80	132	125	S.C.	145	137	112	115
79	147	147	143	147	143	149	140
78	138	128	133	128	125	132	122

C.O.

300 · 17%

330200

7978 ← 20 mesh
green / nucleus
1.75 grammes SP 10 m at
Corrugate with new Multiple
disc 150 albumen.
Chg 15 h 200 dis 10 m. 21%

7979	61	80–84
	70	85–90
7980	68	90–86
7981	71	75–85
7982	68	80–89

need these factors

[illegible]
[illegible]

7987	137	137	135	140	143	163	133
86	138	142	132	133	140	163	130
85	142	147	136	142	147	161	133
84	145	147	137	143	148	163	141
83	150	160	138	155	160	167	165

7987	145	146	138	145	137	142	133
86	132	138	133	136	130	133	126
85	132	137	140	137	133	138	130
84	133	144	138	141	139	141	133
83	143	155	147	150	147	149	148

C.O.

7983 Dup. of 7975 SP 100 cu
Except corrugate 200 cu
cultures.

	66	86-83
7984	67	90-85
7985	66	91-82
7986	63	84-82
7987	62	84-78

7997	272	267	277	277	299	260	267
91	267	263	267	263	293	250	262
90	275	272	277	277	317	261	272
89	270	262	268	263	255	258	265
88	267	265	277	277	293	263	228

Rdm 37 0/0

7997	277	267	262	262	271	265	252
91	265	S.C.	–	241	S.C.	237	232
90	278	277	261	261	271	267	253
89	266	260	256	255	263	258	248
88	279	270	266	264	272	270	262

7997	247	246	262	267	
91	208	193	198	223	
90	256	250	265	282	C.O.
89	233	232	247	267	
88	261	262	295	278	

7988 Dup of 7978 [illegible]
used [illegible]

	58	79 – 84
7989	60	81 – 84
7990	58	82 – 76
7991	59	85 – 78
7992	63	81 – 81

7997	263	259	267	267	286	255	278
96	263	255	267	260	278	257	262
95	277	272	278	282	275	267	283
94	272	270	277	282	277	265	278
93	267	263	267	267	283	255	265

7997	265	253	267	259	259	259	257
96	265	s.c.	253	255	249	s.c.	242
95	288	275	s.c.	282	268	273	245
94	267	273	284	274	253	273	273
93	273	258	267	262	257	262	258

Trend.

7993 Dup of 7983 crack
used neg. all Bins 1.75 g. of mix

	59	82 — 82
7994	62	82 — 82
7995	61	80 — 87
7996	58	80 — 76
7997	57	76 — 80

7998 = S.L. 3856 C 75 E 90-75

7999 = S.L. 3857 C 75 E 90-75

8000 = S.L. 3858 C 69 E 88-90

8001 = S.L. 3859 C 70 E 90-86

8005	222	222	247	260	224	237	
04	218	227	232	250	229	241	
03	219	225	244	265	239	252	
02	222	230	245	263	250	266	

Removed 24 to 26 days

8005	252	250	248	250	237	237	
04	256	247	245	243	237	225	C.O.
03	271	257	257	257	257	230	
02	285	263	273	267	260	245	

8002 — 5" in Roll 1 dry [illegible]
3.65 [illegible]
[illegible]

	92	103-112
8003	98	106-115
[illegible]	[illegible]	[illegible]
[illegible]	92	102-107
8006	[illegible]	

8010	267	192	230	232	255	200	227	
09	305	267	300	292	300	265	278	
08	267	267	267	263	263	245	258	
07	267	267	266	268	297	257	263	

8010	217	S.C. Pocket clipped					
09	282	312	307	294	285	273	C.O.
08	265	272	267	262	257	246	
07	267	272	267	262	257	243	

8007 [illegible]

[illegible] 4.26 = (2.56 [illegible])

	96	109 — 110
8008	111	113 — 110
8009	95	106 — 105
8010	95	103 — 113
8011	Not enough [illegible]	

8013	153	163	195	208	233	182	200	213
12	150	167	207	210	233	187	203	217

[illegible]	[illegible]	220	212	200	C.O.
[illegible]	[illegible]	221	217	201	

8012 Dif of 8012 [illegible]
[illegible] 5 8 6.
[illegible] 8012 = 2 [illegible]

8013 109 116 — 116
110 125 — 115

8014 [illegible]

8015 [illegible] with [illegible] nut

8016

[illegible] the nut make the will 175 at [illegible] pressure and force the [illegible] equal [illegible] the [illegible] [illegible] [illegible] about 175 [illegible] [illegible] the [illegible]

[illegible] [illegible]

8017 SL.3860 C 69 E 89-90

8018 SL.3861 C 70 E 89-57

8022	495	527	539	516	519	[illegible]	505
22	492	526	517	525	520	[illegible]	513
21	[illegible]	529	507	525	528	[illegible]	521
20	502	529	504	526	519	[illegible]	517
19	497	519	500	515	505	[illegible]	505

[illegible] — Solution [illegible]

8023	497	496	491
22	504	505	501
21	517	512	502
20	505	507	503
19	497	497	494

C.O.

8019.

5 lbs [illegible] in 21% KOH containing 250 gm [illegible] acid [illegible] from the [illegible] 200 [illegible]

	89	102-101
8020	93	102-97
8021	93	101-101
8022	91	101-104
8023.	93.	95-106

8024 5 grams Hydroxide —
7 of Ni & 3 of Silicate Copper
made same way as Silicate Ni was made
Rolled dry — 3.2 Cake
Chg 15th 200 Cubic 10-0 210
3.5 grams ave

8025

8026

8027

8028

8029 = 5 green Nickel
7 Ni + 3 flake Nickel
plated out of ~~Cyanide of~~
~~Nickel~~ or ~~Double~~ Cyanide
of Nickel ~~with~~ Potassium
or other Salt. See GW a (21%)

Rolled dry – 3.2 Cake of thick enough

Chg 15h 200da 100

8030

8031

8032

8033

8034 =

Does the flake nickel break up in rolling if not arrange to cut it in sizes & screen it = say to 1/16 or 1/32 Why in Hell dont Fred Ott write a note & tell me how it works in mixing

~~8035 = 5 Reg 7 21/5~~

~~Made with the new multiple die - Coin all press 100~~

~~Coin by die 7~~

8035 5 grs zn Ni 3:2 Cake 2:1
7 M + 3 flake Bismuth
These can be made as 9 dried
it nice —
Dry wipe —
Clay 15 h 200 dry 100

8036

8037

8038

8039 =

8040 = 5 m green — 21%
3.2 Cake
7 m + 3 of flake Cobalt,
Dry mix —
Chg 15h200 Cu 1m0

8041

8042

8043

8044 —

8049	365	390	342	357	367	387	378
48	455	499	483	496	508	[illegible]	494
47	440	458	473	433	467	525	514
46	477	467	473	413	467	500	516
45	427	480	467	484	475	[illegible]	506

8049	366	363	353
48	492	490	490
47	508	507	507
46	510	508	508
45	500	497	500

End.

8045

5 hrs. [illegible] in [illegible] containing 250 mg. hydroxylamine to each cell, + 100 mg. [illegible] $(NH_4)_2$ [illegible] 100.

	91	101–102
8046	95	[illegible]
8047	92	104–104
8048	93	101–106
8049	92	103–101

8054	462	447	33	323	300	[illegible]	192	172
53	417	412	332	285	247	[illegible]	133	122
52	418	416	398	293	265	[illegible]	158	133
51	435	427	357	310	287	[illegible]	153	160
50	437	437	383	357	358	277	257	242

8054	128	129
53	100	97
52	103	95
51	110	107
50	200	195

C.O.

8050

5-his. Rem in regiIKUH.
contenuin una 240 mcg [illegible]
acid et 200 mcg tiolephosphate
each cell.
Protein-free ultrafiltrate of [illegible]
4 dialysis in KH.

	93	107-[illegible]
8051	92	103-102
8052	91	101-101
8053	91	102-103
8054	92	104-104

8059	487	508	493	500	500	492	497	498
58	493	514	492	507	505	[illegible]	502	493
57	498	525	510	517	517	[illegible]	512	505
56	495	519	497	507	506	[illegible]	492	490
55	477	497	484	482	482	475	479	474

Note. Solution in colorless or slightly red-purple not [illegible] dissolved [illegible] colorless [illegible] on change. - 13.8.13.

8059	479	487	479
58	492	492	492
57	493	497	498
56	476	482	485
55	472	467	472

End.

8055.
5 ml. S. Rem in Reg 21% KOH containing 500 mg. Hydrochloric acid [illegible] Clearing [illegible] KOH of [illegible] $CaCl_2$ [illegible] 1:50 [illegible] 1:100

8056	93. 94	102-104 104-106
8057	91	102-102
8058	89	100-98
8059	91	102-104

*

8060 F.E.

SL. # 8[illegible] $\frac{a}{[illegible]}$ $\frac{c}{[illegible]}$

8061

SL # 0855 $\frac{a}{[illegible]}$ $\frac{c}{[illegible]}$

8064	329	317	322	314	325	315	307	298
63	297	290	292	285	285	279	267	260
62	283	283	267	278	275	272	260	250

8064	295
63	254
62	258

C.O.

8062 Li..

Group of 5 lines made with 7 Chill½ to 3 of Fine Li.

The Flake Li is some which was prepared by Mr. [illegible] & [illegible] the [illegible] the surface [illegible] with Key [illegible]

The Li is very bright & shining.

Mix they of under cable 3.6% gms = [illegible] lines

At 15 lines to mm @ 100.

	C		
	Centre	92	Edge 103 – 104
8063		92	101 – 102
8064	Centre	91	Edge 100 – 101
8065			
8066			

8071	S.C.	267	276	[illegible]	256	250	237
70	367	333	352	[illegible]	325	317	305
69	367	347	365	[illegible]	345	335	290
68	S.C	267	280	[illegible]	275	267	258
67	368	357	362	[illegible]	350	339	295

8071	232		
70	297		C.D.
69	317		
68	241	251	
67	318	317	

8067 [illegible]

Group of 5 [illegible] [illegible]
dry [illegible] 7 [illegible] 6 [illegible] Flake [illegible].
The Flake [illegible] was filtered by
F.C. 2½ [illegible]
cold [illegible]
The flake was dissolved by [illegible]
Concentrated [illegible]
3.65 [illegible]
[illegible]

Center [illegible]

8068 [illegible] 74 [illegible]

8069 [illegible]

8070 [illegible]

8071 [illegible]

8073	352	345	337	317	C.O.
72	338	325	303	285	

8072.
Proof of [illegible] of day [illegible]
made 9 x 3 with Photo [illegible]
made by F.O. [illegible] #[illegible]
receipt [illegible] was cleared by
[illegible]
[illegible] very bright [illegible] of Tamil
[illegible] 3.55 [illegible] 21-[illegible]
[illegible]
[illegible]

8073 91 100–102

8074

8075

8076.

8072 94 102–105

8081	558	557	545	552	557	565	542
80	458	433	433	410	425	417	400
79	557	557	548	527	553	543	517
78	553	557	550	530	552	543	522
77	512	470	472	467	462	462	445

8081	562	558	
80	403	400	C.O.
79	547	523	
78	547	526	
77	498	460	

8077 5 Reg Wi 21%
Contained in 4 ml. cell
25 milligrams Red Precipitate
of Platinum —
Chg 15 h 200 ohms

	93	98-105
8075	92	102-106
8074	92	103-102
8080	90	102-99
8081	94	103-105

8086	562	553	558	550	555	557	553
85	581	583	560	557	565	570	550
84	559	557	558	550	550	557	533
83	562	557	551	550	543	548	527
82	560	467	570	467	573	467	423

8086	557	543
85	527	553
84	557	543
83	545	542
82	475	483

C.O.

8082 = 5 Reg Hi 21 %
Continuing in Shock Cell
50 Milligrammes Rad.
Prussoside of Potash –
Chg 15 K 200 dis 100

8083	93	94–102
	92	102–103
8084	91	97–95
8085	92	102–104
8086	92	98–105

8091	637	582	433	433	517	500	397
90	641	617	467	388	533	500	422
89	640	612	433	475	533	500	422
88	633	612	467	400	[illegible]	533	490
87	648	618	467	442	[illegible]	522	490

8091	433	510
90	433	497
89	433	510
88	500	532
87	483	552

C.O.

8087 5 Reg Nickels 21 o/o
Contains 250 Milligrammes
of Red Hematite of Potash
and Soda ccc —
Clay 15 h 200 d - 100

8088	92	102-103
8089	93	105-106
8090	92	105-100
8091	92	102-99

8096	565	383	517	467	556	462	462
95	605	367	433	433	532	433	433
94	569	428	467	410	522	417	417
93	607	367	498	455	547	500	433
92	575	365	520	400	527	428	400

8096	500	543
95	452	528
94	433	495
93	463	540
92	400	595

C.O.

8092 = 5 Req. 74 21 %
Containing one gramme of
Red Precipitate of Potassium
in Each Cell, Obtg 15 h 200 du. 100

8093	93	102–104
	92	101–103
8094	92	102–103
8095	92	103–103
8096	93	102–102

8101	563	393	582	527	567	500	467
00	473	192	567	493	497	488	372
8099	562	427	582	510	533	488	433
98	477	267	567	500	542	488	428
97	542	300	467	467	542	488	428

8101	483	560
00	483	532
8099	458	533
98	452	528
97	452	528

C.O.

8097. 5 Rey 14 21
Containing 100 milgms Red Prussiate
Potash Fresh cake —
Smooth press 100 atmos.
Compressed 150 atmos
Chg 15 h 200 dis 100

8098	95 97	101 — 100 101 — 101
8099	99	104 — 104
8100	99	103 — 102
8101	94	97 — 97

8106	590	525	526	492	584	584	580	487
05	608	547	525	492	593	592	590	505
04	642	533	597	492	595	544	600	572
03	616	467	557	492	523	567	592	552
02	605	525	528	433	577	553	586	573

C.O.

8102 Dupaß 8897
Except Sinbäch [illegible] 100 atmos
Corrugate 200 atmos

8103 [illegible]

8104 [illegible]

8105 [illegible]

8106 98 [illegible]

8111	598	578	533	467	560	560	572	575
10	532	533	500	567	547	554	562	574
09	610	595	558	597	594	595	598	600
08	575	553	647	500	591	592	589	590
07	532	500	603	533	593	592	590	557

8111	580
10	573
09	602
08	594
07	571

C.O.

8107 Dup of 8097
Except smooth grass 100
Coring ht. 250 altus

8108 [illegible]

8109 [illegible]

8110 [illegible]

8111 [illegible]

8116	630	Soaked soil Germinated	514	513	511	507	
15	624		516	513	515	511	
14	598		504	497	497	492	C.O.
13	592		492	491	492	467	
12	625		514	513	515	511	

8112 = 5 Reg Ni 21 % Sulphate
100 milligrammes Red Prussiate Potash 4 inch cell
after the first run Change
then Pal dry, let it soak two hours & change again wait
to Glemmi'ed cell the Prussiate
then run in Reg 21 % —

8113	92 94	101–102 104–107
8114	89	99–98
8115	91	102–104
8116	93	105–103

8121	33	15	12	10	10
20	17	75	12	10	10
19	17	3	12	7	10
18	17	15	0	0	0
17	7	0	0	0	0

C.O.

8117 5 grain [illegible]
2.5 of grain mixed with [illegible]
Grain reduced by [illegible]
100 mm [illegible] press [illegible]
Corrugated
Charge 15th 200 also 10 m

8118	91 94	99–101 101–104
8119	93	99–103
8120	93	[illegible] 75
8121	92	100–98

[illegible] grain mixed [illegible] $(OH)_2$
[illegible]
To [illegible] grain
[illegible] 3.5 [illegible]
[illegible]

8126	147	208	103	26	
25	58	92	100	0	
24	156	258	228	51	C.O.
23	147	252	167	0	
22	153	152	23	0	

Note, - Silver plate peels off - W.E.H.

8122 = 5 ml - 21% - [illegible]
3 gmm Gram alcohol [illegible]
Reg Cups which are plated
with Silver [illegible]
Chip [illegible]

8123 [illegible] [illegible] - [illegible]

8124 [illegible] [illegible] - [illegible]

8125 [illegible] [illegible] - 107

8126 [illegible] 107 - 144

8131	42	53	75	67	
30	42	s.c.	54	71	
29	52	6	54	81	C.O.
28	48	50	0	90	
27	42	50	75	67	

Note, – Most all the Cu plated over on the 32s on 1st dip. Only a thin black coating left on the 8130. I think is an indigo precipitate in the bottom of the cells. – W.E.H.

8127 = Dup of 8122
Ep deposit copper plated with Copper —

8128	45	[illegible]	102
	44	[illegible]	103
8129	44	[illegible]	106
8130	[illegible]	58	106
8131	46	57	102

8132 Group of 8122
[illegible] potassium iodide
Bismuth —

8133

8134

8135

8136

8141	7	2	3	0	0
40	7	5	3	38	40
39	23	3	3	25	39
38	20	33	40	39	38
37	12	15	33	25	29

C.O.

Note, - Most of the Cd plotted over on the Zns on first charge. - W. E. H.

8137 Dup of 8122.
Except Cups plotted with Cd [illegible]

8138	96 97	[illegible]
8139	[illegible]	[illegible] – 110
8140	15	[illegible] – 105
8141	79	110 – 108

8146	233	311	293	291	278	265	280
45	250	308	276	280	267	247	258
44	227	297	272	281	263	251	255
43	263	330	308	302	292	280	287
42	273	326	309	300	288	265	233

8146	273	303
45	265	296
44	271	306
43	292	312
42	181	294

C.O.

8142 3. grain Through. (21%
20 on 38 — 100 [illegible]
Smooth press 150 [illegible]
[illegible]

	98	103-104
8143	98	105-101
8144	96	98-105
8145	97	104-101
8146	97	104-101

8151	S.C.	200	258	258	257	233	S.C.
50	208	277	S.C.	S.C.	283	250	250
49	32	48	50	33	28	23	21
48	195	277	267	280	261	254	278
47	245	308	288	292	273	265	282

8151	262
50	255
49	21
48	262
47	268

C.O.

8147 Drop off 8142

Except through 30 on 50

8148	92	100-99
	96	100-104
8149	98	102-103
8150	98	104-100
8151	96	102-107

8156	260	315	288	292	285	272	280
55	230	275	258	250	247	233	247
54	252	312	292	284	281	262	273
53	249	321	308	304	296	279	285
52	257	317	318	308	300	277	292
					282		

8156	290
55	250
54	289
53	297
52	287

C. D.

8152 Dup. of 8142

Except Hung. 50

on 80 —

	95	103-103
8153	97	102-104
8154	99	105-102
8155	99	101-105
8156	97	103-99

8161	240	310	302	300	285	257	297	288
60	200	286	294	296	274	269	271	292
59	142	177	157	133	95	77	65	62
58	200	278	287	278	252	242	255	255
57	237	300	278	274	297	267	233	293

8161	290	
60	283	
59	50	C.O.
58	257	
57	277	

8157 Dupe of 8162
except that it is [illegible]

8158	94	102-104
	99	[illegible] - 104
8159	92	[illegible] - 98
8160	97	[illegible]
8161	75	135- 104

8166	165	248	232	248	233	213	217	227
65	32	32	13	13	17	9	1	17
64	225	332	298	305	305	287	300	303
63	222	307	277	287	280	263	272	277
62	187	283	277	288	288	263	287	282

Note, - #8165 seems a little soft in the middle, but Electrical quality good. - W.E.N.

8166	230
65	1
64	307
63	281
62	288

C.O.

8162 [illegible]
Except through 100
ON 130 [illegible]

8163 93 98-102
98 106-[illegible]

8164 95 106-103

8165 98 105-109

8166- 97 107-106

8171	180	266	285	280	265	278	277	280
70	158	232	248	247	237	220	233	250
69	210	289	293	298	277	264	307	297
68	190	257	260	253	238	237	255	253
67	92	298	296	273	263	252	265	275
	164	266	277	270	276			

8171	270
70	233
69	279
68	245
67	272

C.O.

8170 / 164
8169 / 1342 / 266
8168 / 1344 / 277
8167 / 1251 / 270
8166 / 1340 / 276

8167 = Dup of 8142

all through 130 or

8165 97 [illegible] 104
96 103 — 106

8169 95 [illegible] — 104

8170 [illegible] 106 — 102

8171 92 100 — 102

8172 = S.L. 3862 C 65 E 85-82

8173 = S.L. 3[illegible] C 65 E 85-84

C E

C E

8174 = S.L. 3866 C 72 E 85-87

8175 = S.L. 3867 C 64 E 85-87

8176 = S.L. 3868 C 65 85-88

8177 = S.L. 3869 C 67 89-89

8182	262	293	287	275	292	273	255
81	262	290	287	275	278	270	253
80	262	285	287	272	275	268	252
79	167	290	287	277	277	273	258
78	262	287	290	278	280	267	252

8182	245	245
81	245	247
80	245	245
79	242	251
78	242	245

C.O.

8178

Group of 5 Nickel of dry air
made 17+3 with [illegible]
Moderately [illegible] [illegible] oxygen
[illegible]
3.65 [illegible]
[illegible]

	C	E.
8179.	90 88	104 — 104 103 — 102
8180	88	104 — 103
8181	89	99 — 98
8182	88	99 — 103

8187	500	522	522	518	520	523	522
86	508	516	522	520	515	528	528
85	508	515	523	522	530	531	535
84	506	517	515	515	520	516	517
83	524	518	518	518	521	532	529
	505	517	524				

End.

1200 / 1524
520 / 501
5 / 2544
509

8183 · 5 Michelotti Ring — 21%.
Mende [illegible] queen [illegible] Municipale Stolen
100 Smooth press. 100 Corrugated
Charge 15 h 2min 1 min

8184	99	106 – 107
	99	107 – 105
8185	97	103 – 105
8186	97	104 – 105
8187	97	103 – 103

8192	525	539	535	543	544	554	545
91	508	523	515	527	528	537	531
90	513	527	526	533	535	541	529
89	515	523	524	533	538	546	541
88	515	522	525	532	533	538	541
	514	527	525				

End.

5/2376
5/2634
5/2637
5/2628
5/2623

8188 - Dup of 8183

Except 100 Smooth pieces
150 Corrugated

8189	98	108-105
	95	[illegible]
8190	98	107-104
8191	98	107-107
8192	99	108-107

8197	515	517	533	535	531	534	535
96	517	530	536	535	535	538	537
95	524	538	538	542	535	541	538
94	519	533	522	533	532	534	526
93	527	541	538	547	544	551	542
	520	532	535				

End.

5/2659 532

5/2602 520

5/2677 535

8193 Dup of 8185

Except 100 Quarrelli pairs
200 Corrugated

8194 99 111-119
95 [illegible]

8195 95 [illegible]

8196 94 [illegible]

8197 96 107-109

8198 = S.L. 3870 68 85-86

8199 = S.L. 3871 67 85-86

8204	267	266	251	260	251	261	258
03	275	[illegible]	260	262	258	263	266
02	275	[illegible]	265	267	262	271	270
01	272	[illegible]	260	262	258	265	265
00	273	[illegible]	258	258	258	263	262

← Sol. in 33 % KOH.

8204	255	256	251	227	230	243	260	257
03	263	263	251	237	243	255	273	282
02	270	274	255	247	245	253	270	304
01	265	262	251	329	242	253	275	282
00	265	262	252	247	245	253	265	272

End.

115) 304 (1 7.3
175 3.2
129 46
122 5 9
50 5.9
6 .73

8200 = 5 Ni. #424 Reg. Ni Wire
1.75 gram cater with Nickel
Pockets min against Mo Fe: 3.2
gram cater. missing now 1 pocket
The Nickels wire S.P. 100.
Non-Ferrous 75 Grams
Non-homogeneous S.P. 150
Con. 100. sum 21 %.

	65	82–81
8201	61	77–78
8202	62	80–80
8203	64	77–81
8204	66	82–82

8205 = S.L 3872 c 65 c 85-81

8206 = S.L. 3873 c 24 c 87-85

8207 = 5 mg made from hydroxide
which is obtained from Evaporating
Ammoniacal Solution of Peroxidizing Nickel.
Ni_2O_3 – This mixed 8d 2 day –
rolled – 312 – 21%. Selman make it
Chg. 15th zero ohm 1.0

8208

8209

8210

8211

8216	42	46	18	30	25	25	23	22
15	35	38	27	25	25	20	17	15
14	38	40	33	25	22	21	20	20
13	35	42	33	28	24	25	23	22
12	30	32	33	17	16	16	17	13

8216	S.C.	22	21	S.C.	S.C.	23	C.O.
15	20	22	17	22	16	15	
14	16	18	17	21	15	17	
13	26	26	24	27	21	19	
12	20	20	17	25	17	17	

8212 5 nickels containing 2 grammes of Carbonate of Magnesia 110 [illegible] Nickel in each portion. No gravitation 21% Multiple County die Charge 15 h 200 di, 100 [illegible]

8213 64 [illegible] 84-76

8214 [illegible] [illegible]

8215 [illegible] [illegible]

8216 [illegible] [illegible]

8221	68	73	63	53	50	52	45	43
20	45	82	62	79	55	58	52	50
19	85	87	67	65	52	58	50	47
18	80	88	63	62	52	57	48	47
17	62	75	63	53	45	52	42	42

Put in 33 c.c. KOH

8221	52	49	56	47	50	46	33
20	52	48	55	47	48	47	33
19	52	48	60	48	51	47	32
18	50	47	55	42	43	39	—
17	48	43	50	42	42	38	33

C.O.

8217 Dup of 8212.

but with 3 [illegible] of [illegible] Carbonate of Nickel in [illegible] pocket

8218 [illegible]

8219 [illegible]

8220 [illegible]

8221 [illegible]

The 3 g. [illegible] with [illegible] [illegible] and [illegible] in group 8112 [illegible]

8226	337	305	279	262	250	250	257
25	217	282	263	247	226	220	195
24	267	305	281	263	242	237	273
23	327	311	292	289	274	277	285
22	293	298	272	241	221	217	209

Before ↓ After

8226	246	243	239	236
25	157	152	142	139
24	191	178	167	162
23	270	267	262	277
22	197	164	179	152

C.O.

9/6 2nd Calliper after they were Corrugated

3.5 [illegible]

8222 — 5 nickels
3.2 — of which 8 to RO H) 2
through 20 mesh & the other, 2
flasks Nickel wood, cleaned
by Hydrogen & Malcomes [illegible]
of flasks but low by temperes by
fired off the weighed amount
[illegible] W.C. [illegible] on a [illegible]
~~[illegible]~~ 38 100 + Corrugated 100 always [illegible]
Experimental — O.D.R. 24 hours
in water with 3% RO H,
then changes & put in
fresh 3% RO H. finally
removed after 48 hours
or more & dry —
21%

Aug 15 1200 ohm 100

8223	1st	84	95 – 91
	2nd	112	113 – 113
8224	1st	85	91 – 93
	2nd	101	92 – 104
8225	1st	79	89 – 87
	2nd	131	117 – 117
8226	1st	85	92 – 93
	2nd	113	112 – 113
		83	91 – 91

2nd reading is after the wire cooled and tried.

8227 = [illegible]

8226 = [illegible]

8224 = [illegible]

[illegible] = [illegible] 68 28-83

8235	500	514	495	517	565	517	528
34	508	514	500	507	525	527	542
33	500	512	499	509	517	517	527
32	465	463	467	467	467	464	476
31	493	498	487	500	513	513	528

8235	528	522	533	527
34	546	547	559	554
33	525	520	5[illegible]	523
32	474	467	[illegible]	471
31	528	536	53[illegible]	533

End.

[illegible] B L T J

8231 5[illegible] [illegible] 3[illegible]

[illegible] pull [illegible]

Reg. P[illegible] [illegible]

[illegible]	[illegible]	74	103 — 103
[illegible]	[illegible]	91	102 — 100
8232	T	[illegible]	[illegible] — [illegible]
	B	93	[illegible] — 103
8233	T	97	103 — [illegible]
	B	92	103 — [illegible]
8234	T	93	103 — 103
	B	92	102 — 102
8235	T	93	101 — 102
	B	95	102 — [illegible]

8240	510	517	508	522	527	527	539
39	510	517	508	522	530	528	540
38	508	520	517	528	535	532	542
37	525	533	525	533	543	541	552
36	518	530	517	528	537	536	547

8240	539	528	548	536
39	542	530	550	537
38	542	531	546	532
37	554	540	554	542
36	546	537	548	538

End.

8235 Dup. of 8231 except
S.P. 100 Col. 150

	T	100	100 — 100
	B	96	101 — 100
8237	T	97	100 — 105
	B	100	100 — 105
8238	T	98	100 — [illegible]
	B	95	[illegible] — [illegible]
8239	T	100	104 — [illegible]
	B	97	104 — [illegible]
8240	T	96	[illegible] — 101
	B	95	101 — 101

8245	131	207	141	167	177	162	163
44	125	183	133	153	167	158	150
43	S.C.	70	100	162	192	180	175
42	113	177	133	152	163	158	145
41	115	175	140	152	163	158	151

8245	152	147	155	133
44	143	156	147	133
43	163	182	138	158
42	133	145	142	133
41	145	148	150	133

C.O.

8241 [illegible]
[illegible]
Supra [illegible]
42 [illegible] 2143

	T	98	117–116
	B	93	[illegible]–105
8242	T	90	[illegible]–110
	B	92	[illegible]
8243	T	90	[illegible]
	B	95	[illegible]
8244	T	91	[illegible]
	B	93	[illegible]–101
245	T	90	[illegible]
	B	92	[illegible]–102

Dilution @ 50.

8250	233	228	163	183	178	163	213	167
49	212	232	163	180	178	163	215	173
48	193	217	153	163	167	158	215	155
47	204	250	163	178	185	170	213	177
46	233	247	163	173	187	175	213	173

8250	163	165	145	147	140
49	177	160	153	153	147
48	152	153	133	138	133
47	177	167	158	163	155
46	187	173	165	167	155

C.O.

8246 Infection
S.A 166 Coa. 163

	T	98	[illegible]
	B	93	161 — 163
8247	T	101	[illegible]
	B	95	164 — 165
8248	T	100	165 — [illegible]
	B	94	162 — 161
[illegible]	T	95	[illegible]
	B	94	162 — 163
[illegible]	T	100	165 — 163
	B	96	163 — 163

Dist. @ 5°

8255	333	333	318	283	311	272	275
54	330	333	327	298	331	300	305
53	337	333	315	282	321	287	295
52	333	333	283	263	301	252	275
51	330	333	237	263	333	292	295

8255	267	272
54	292	298
53	282	296
52	267	275
51	290	300

C.O.

	94	[illegible]
	88	[illegible]
[illegible]	93	105–105
	86	[illegible]
8254	[illegible]	[illegible]
	90	[illegible]
8255	98	107–107
	91	107–112
8251	[illegible]	112–112
	75	[illegible]–107

8251

[illegible]

8252	T	105	113 — 117
	B	97	117 — 117
[illegible]	T	110	125 — 125
[illegible]	B	102	120 — 121
4	T	107	117 — 123
	B	97	117 — 117
[illegible]	T	110	123 — 122
	B	101	117 — 121
	T	109	124 — 125
8251	B	102	117 — 119

Holdup –

8256 5 gibbs pockets put in grids & recorrugated – polish sides, then make them Cathode for 15 hours 100 rate – then soak in water till KOH out then put in water containing 1% of Bromine to eat iron out. Edison will attend to this group.

8257

8258

8259

8260

Feby 11 1905

Contact Resistance of flake graphite or flake nickel –
1 gram each ambalume –
in Cup between buttons –
Measured by Warren

	Press 10 grm	60 grm	110 G	210 G	510 G
flake graphite	1·50	·220	·10	·05	·025
flake nickel	0·10	·025	·015	·015	·005

Nickel flake 15 times less R 10 grm press
" 9 " 60 "
" 6·7 " 110 "
5 " 210 "
5 " 510 – "

Today Frehold Electric Welder by are the perforated strips together – OK –

8265	390	395	372	382	383	365
64	357	350	325	332	307	287
63	381	S.C	342	S.C	327	298
62	S.C	Pocket ruined				
61	371	347	310	310	292	287

C.O.

85 — 91 = 88

91 — 93 - 96

86 — 93 - 89

89 — 91 - 85

87 — 92 - 90

Fredette make

64 4 S S

8261 5 M finger mix - ~~[illegible]~~

flake ~~[illegible]~~ Nuked 3/10,000 thick -

proper amount Molasses -

Soak first ~~[illegible]~~ Molasses 3 way way

Record 1000 spin cut -

1st press 50 cut smooth, (after soaked)

4 dry press 100 cut smooth, 150

Corrugate - 21%

Chg 15 h 200 cut 100

8262 98 101

8263 101

8264 100

8265 102

8266 Dup of 8261 but use
4/10,000 flake nickel.

8267

8268

8269

8270

8271 Dup of 8261 except
5/10,000 - which is 1/2 of
1000th of inch of Cube Root - 21%

8272

8273.

8274

8275

8280	462	513	497	488	486	492	500
79	445	498	478	475	472	477	485
78	462	512	493	487	485	489	494
77	450	498	447	463	463	470	477
76	462	512	497	488	492	498	505

8280	488
79	476
78	486
77	471
76	487

End.

8276 = .5 Reg Ni 21%
Each cell Containing 1 grammme of
Bromide of Potassium
C. hg 15 h 200 deg 100

8277	91 92	[illegible]
8278	94	[illegible]
8279	94	[illegible]
8280	93	[illegible]

Sm. 33 to Koll.

8285	400	487	490	523	465	458	451
84	402	499	498	528	475	477	46[illegible]
83	400	490	490	530	477	473	47[illegible]
82	382	458	442	455	392	367	36[illegible]
81	367	420	380	398	327	297	30[illegible]

8285	495	515	541	557	556	537
84	508	545	557	549	559	538
83	510	543	S.C.	527	545	537
82	392	413	410	412	422	409
81	299	282	S.C.	291	295	300

8285	545
84	544
83	560
82	410
81	300

C.O.

8281. 5 mi Reg change + discharge twice in 33½ — after 4th discha. gives 16 Eclamin 15 soak pass of RH. thru cling & remove from pockets & put in new pockets to 6 a.m. in 21½

8282	93	[illegible]
	92	[illegible]
8283	91	[illegible]
8284	91	
8285	91	[illegible]

8290	90	135	155	173	132	162	S.C.
89	95	144	164	184	147	175	143
88	95	147	169	187	147	177	147
87	73	118	147	174	128	165	165
86	77	113	148	177	133	168	140

8290	140	157	145	150	152	163
89	155	163	158	178	177	165
88	152	167	150	180	173	160
87	150	157	148	172	175	163
86	147	157	150	167	168	167

C.O.

8286 5 ni with two pocket sections,

Containing a total of 3.2 grammes of Nickel hydroxide containing 6 percent of Bismuth hydroxide ~~[illegible]~~ No graphite provided to go through 20 mesh Smooth paste to the paste 150 –

Chg 15 h 200 [illegible]

	T	100	108–108
	B	94	102–102
8287	T	103	110–110
	B	97	108–107
8288	T	97	104–104
	B	94	105–104
8289	T	100	109–108
	B	97	105–106
8290	T	98	106–104
	B	96	103–107

8295	367	460	477	482	500	504	510
94	403	487	495	495	500	500	507
93	367	460	492	498	500	503	509
92	455	482	482	483	492	492	497
91	400	487	490	487	486	486	492

8295	496
94	493
93	495
92	[illegible]
91	[illegible]

End.

8291 = 5 ml Reg 21% —
1 gram Chloride of ammonium in
2 cubic cent.
Chg 15 h 200 dur 100

8292

8293

8294

8295

8300	215	400	430	453	466	481	487	479
8299	103	253	397	400	428	437	446	446
98	103	400	465	482	482	486	494	486
97	222	412	465	487	504	507	513	503
96	202	412	475	493	497	500	510	505

8300	496	485	487	481	477	
8299	452	466	478	472	473	C.O.
98	497	488	486	482	480	
97	505	512	507	507	500	
96	506	512	504	503	500	

Assumed that one Fe from each cell with two 3.5 g. Fe in same original solution to see if Fe is hard.

8300	1117	1100	1100	1067	1097
8299	1117	1073	1100	1067	1090
98	1110	1067	1057	1063	1067
97	1120	1063	1060	1057	1067
96	1110	960	1017	1017	1000

C.O.

8296 = 5 ml 21%
Each cell contained 5 gr ammonia
Ammonia —
Cl g 15 to 200 dis 100

8297	92 92	98 — 13.2 [illegible] — 13.2
8298	93	[illegible]
8299	90	[illegible]
8300	93	[illegible]

8305	468	589	662	713	727	738	700
04	470	597	676	720	733	746	703
03	462	S.C.	562	658	682	707	658
02	466	590	667	715	727	733	692
01	472	597	672	726	740	741	705
					722	733	

8305	742	778	724	739	711	764	758
04	744	780	732	747	728	767	750
03	702	722	689	717	700	733	727
02	731	754	700	733	716	743	730
01	745	758	704	747	713	746	733

8305	750	} gen. Ave.	
04	752		
03	725	750	
02	733	765	
01	747	762	
	741		

End.

725

5 | 3707
741

8301 — 5" pi with 2 pockets in
Eucalyptus [illegible]
3.2 Reg mix total — smooth pieces
100 Corrugated 150 —
Change Delivery in 33%
Chg 15th 200 del 100

	T	100	
	B	100	105 — 104
8302	T	99	105 — 104
	B	97	105 — 104
			101 — 102
8303	T	98	103 — 100
	B	99	105 — 103
8304	T	99	104 — 104
	B	98	102 — 103
8305	T	95	105 — 102
	B	98	105 — 101

8310	437	536	600	646	657	652	636
09	433	517	573	617	628	625	625
08	454	552	612	657	671	667	651
07	447	553	622	669	682	687	667
06	439	543	598	640	647	657	633
					657	657.6	

8310	667	676	625	665	688	770	687
09	650	669	607	644	668	754	650
08	690	706	643	686	714	802	704
07	707	725	663	697	720	806	712
06	673	697	637	667	693	787	700

8310	693	667	680	697
09	687	645	S.C.	695
08	736	712	723	737
07	746	723	723	737
06	724	713	723	742

End.

8306 = 5 ni with Two Cups
in each grid — 3 grams,
Reqmt total —
Should express 100 Corr 150
Alg 15 in 200 Corr 100 m
33%

	T	95	100 — 95
	B	93	99 — 98
8307	T	95	100 — 101
	B	94	100 — 98
8308	T	97	103 — 99
	B	95	101 — 100
8309	T	95	101 — 100
	B	95	97 — 102
8310	T	92	101 — [illegible]
	B	94	98 — 98

8315	404	494	552	586	597	614	573
14	400	487	541	572	583	595	557
13	408	463	549	587	596	596	562
12	420	517	572	617	628	624	580
11	400	487	532	568	576	577	538
					596	600	

8315	611	631	602	621	657	726	679
14	593	612	583	609	644	717	667
13	598	616	581	612	643	715	662
12	625	636	592	627	652	725	663
11	575	589	526	565	597	685	632

8315	670	660	658	683
14	648	640	642	660
13	638	633	643	642
12	641	642	635	655
11	615	600	613	633

End.

8311 = 5 ni two pockets in one grid — Containing 275 grain mes Rog 1000 smooth pieces 100 Corrug 150 Chg 2-drum 33 ⅓ Chg 15 h 200 chs 100

	T	91	95 – 95
	B	89	95 – 93
8312	T	93	95 – 93
	B	89	91 – 93
8313	T	87	91 – 89
	B	91	93 – 94
8314	T	93	93 – 95
	B	91	94 – 93
8315	T	94	96 – 96
	B	91	93 – 97

8320	393	427	440	447	507	472	492	513
19	393	420	438	452	509	487	507	525
18	333	420	438	447	506	475	495	517
17	367	427	458	467	525	489	507	528
16	367	420	443	456	495	472	493	507
						478		

8320	484	512	541	625	575	557	533
19	497	523	548	625	570	560	542
18	486	507	532	612	563	561	533
17	503	518	549	631	579	580	555
16	492	499	521	598	550	554	542

8320	558	558
19	557	557
18	557	552
17	563	587
16	560	557

End.

8316 = 5 lii two cups in each grid 215 grams [illegible] nickel smooth finish 100 Coating 150 Chg + [illegible] in 33% + Cdg 15 h 200 [illegible] 100

	T	87	85 - 88
	B	86	86 - 85
8317	T	87	87 - 85
	B	89	90 - 90
8318	T	87	86 - 87
	B	87	[illegible] - 90
8319	T	86	87 - 87
	B	90	90 - 91
8320	T	84	85 - 86
	B	89	90 - 88

8325	272	300	280	292	300	275	290
24	235	293	323	340	353	333	350
23	227	287	317	333	353	317	322
22	227	288	313	333	352	317	332
21	222	277	300	313	325	298	320
						308	

8325	277	300	303	300	327	287	307
24	345	337	362	362	395	378	367
23	325	323	338	346	377	365	358
22	325	323	338	345	373	363	352
21	317	303	321	320	353	343	333

8325	334	323	322
24	380	363	375
23	365	365	377
22	352	350	367
21	333	333	350

End.

8321 5 mi 2 pockets in
Each grid – 2 grammes
Reg Nickel – Smooth pieces
100 Coming 150 –
Chg + checking in 33 o/s
Chg 15 h 200 ds 100 –

8322	T	77	74 – 80
	B	73	72 – 78
	T	77	73 – 78
	B	76	73 – 79
8323	T	73	79 – 80
	B	74	80 – 80
8324	T	73	79 – 80
	T	75	73 – 74
8325	T	70	73 – 76
	B	76	70 – 78

8330	252	283	308	333	335	343	348	323
29	250	292	310	345	343	350	358	336
28	248	243	267	290	280	287	300	267
27	248	283	300	317	340	345	357	328
26	265	315	333	360	368	387	383	347
						355		

8330	250	345	337	362	367	390	379	367
29	255	348	337	363	367	378	388	378
28	285	277	300	300	300	320	300	300
27	257	345	334	362	367	398	388	377
26	384	390	357	383	390	433	422	411

8330	365	367	378	
29	378	380	383	
28	300	S.C.	S.C.	
27	382	378	388	
26	400	393	430	

End.

2 | 387
193
34
32
16
61.7

2 min to 560

8326 – 5 ml. 2 pockets each
grid 2 grams [illegible]
100 atmos smooth press
200 atmos corrugate
Chg 9 dmg 33%
Chg 15 h 20 d [illegible]

8327	T	71	[illegible]	75
	B	71	[illegible]	72
	T	68	[illegible]	69
	B	76	76 –	79
		77	[illegible]	
8328	T	76	77 –	76
	B	76	[illegible]	83
		80	[illegible]	
8329	T	76	[illegible]	80
	B	75	[illegible]	78
		79	[illegible]	
8330	T	75	75 –	79
	B	80	75 –	84
		[illegible]	[illegible]	

8334	477	452	445	427	408	397	377
33	478	447	425	397	373	348	333
32	388	377	377	363	363	338	318
31	467	436	421	414	395	362	347

8334	373	378	372	333	312	310	306
33	331	330	332	300	285	282	279
32	311	310	313	295	277	272	267
31	333	333	333	310	297	290	289

8334	290	285	290	275	262	257	250
33	262	282	263	252	242	233	233
32	151	253	258	240	225	227	226
31	267	272	267	260	245	244	233

8334	248	238	233	257	242	232	243
33	230	222	220	217	223	213	228
32	223	207	222	202	208	200	208
31	233	227	226	222	225	217	228

8334	237	230	238	233	245	237	233	231	228	225	220	221
33	220	215	227	223	237	233	232	229	220	220	213	213
32	207	200	210	207	220	215	210	212	205	205	198	200
31	223	217	227	224	233	228	227	5	226	216	212	212

8331 — 5 Ni 3 grammes
grew Nickel hydroxide, through
20 mesh 2 gram Nickel powder
reduced by hydrogen —
Dry mix Chg 15th 200
do 100 — 21 ½ Bottles

blue nickel ground of [illegible] A & [illegible]
4.26 grams to [illegible]
grind [illegible] [illegible]
[illegible] number

8332 97 106–108

8333 98 [illegible]–110

8334 100 110 109

8335 —

8331 98 110–111

8336 — 5 M 4 grams of Nickel hydroxide made by precipt. Sulphate with slight excess of KOH, boiling and giving it only one washing in Lefarde battery jar — Make about 1½ oz — Then dry & powder through 20 mesh Save some of the dry stuff to determine the nickel —
Chg 15 h 200 ohs 100 21%

8337

8338

8339

8340

8345	200	202	197	168	175	153	140
44	198	200	188	167	177	157	140
43	198	200	175	150	167	167	125
42	200	200	188	163	170	150	132
41	200	200	167	157	137	133	117

C.O.

8341 5 ni- 3 grms green hydrox
through 20 mesh mixed with
Vaseline + put in cup —
Smooth press 100 Cor 150
Soak in ~~Benzol for 1 hr.~~
Tumble full of gasoline Change 4 times
then dry — 21% Chg 15 h 200
dis 100 —

8342	93	97 - 98
8343	[illegible]	100 - 97
8344	[illegible]	97 - 97
8345	92	95 - 95

8350	50	115	97	100	80	100	100
49	60	117	103	112	95	115	112
48	52	122	120	112	88	107	100
47	57	132	113	118	100	115	112
46	53	147	127	137	113	132	127

C.O.

8346 = 2½ grammes Green Nickel hydroxide, 1 gramme Lead Glass Capillary tube 10/1000 diam 1/32 long Make by Dally - mixture Nickel. 100 Smooth from 100 Corrugated Chg 15h 200 dis 100 21% —

8347	101 97	113-111 104-106
8348	100	109-111
8349	101	110-108
8350	98	109-106

[illegible] O.K. – 70.2.H.

8356	685	683	678	649	659	665	647	
55	695	700	692	692	693	687	680	
54		600	590	587	583	575	578	
53		538	537	528	527	517	512	

8356	643	649	625		8356, 55. Sp[illegible]
55	670	670	665		in H_2O till free of K[illegible]
54	572	578	587	582	T. [illegible] dried + re-
53	512	520	507	508	Corrugated @ 150 [illegible]

and put up with 2 [illegible] spark [illegible] in 72 o/[illegible]

Collapsed after [illegible] 8356 109 109–[illegible]
55 107 109–105

8356	588	575	565	567	547	558	557	[illegible]
55	599	610	628	615	618	617	612	[illegible]
54	572	575	580	562	567	565	567	[illegible]
53	507	507	516	497	515	508	512	[illegible]

8356	537	573	565	555	550	561	543	[illegible]
55	603	603	625	612	610	618	610	[illegible]
54	563	583	587	547	567	578	567	[illegible]
53	488	525	508	505	500	510	498	[illegible]

8351 5 M Req changed ~~[illegible]~~ [illegible]
~~[illegible]~~ in 33% ~~[illegible]~~ then changed

12 ct Pumpagain + ~~put in water to~~
517 left in Cells until Edison
540 Comes to lab. to soak cell
577 KOH out + float the NiO_2 out
520 + dry it making two cell
from reconclaint. 3 gram Cake
No graphite –

90

8352 95

8356	563	567	572	567	547	549	544	560
55	622	621	603	623	612	617	614	620
54	585	585	587	587	576	579	573	580
53	514	525	517	517	500	500	500	512

8356	548	557	543	555	567	547	545	530
55	615	615	612	617	622	610	610	S.C.
54	575	578	570	580	585	578	577	558
53	527	533	533	538	555	533	533	523

8356	529	531	532	542	525	533	528	532	Balanced to
55	600	595	595	608	597	597	595	600	[illegible]
54	562	557	558	567	552	562	553	562	[illegible]
53	520	533	528	530	523	531	522	530	

@ 500

8357	717	759	768	831	746	767	483
56	717	779	768	837	753	778	492
55	715	769	755	828	757	785	702
54	693	767	756	830	744	767	743
53	672	707	711	767	S.C.	753	720

717 = 285 per gm. $Ni(OH)_2$

758 = 305 " "

	@ 500						
8357	500	S.C.	Gone to T.g.c.				
56	525	738	735	730	740	723	713
55	758	777	749	737	750	743	727
54	736	752	727	727	743	735	718
53	682	708	685	582	713	S.C.	S.C.

8356	697	697	686	686	668	707	
55	707	713	712	701	696	700	
54	695	700	698	695	688	694	*
53	692	680	680	674	667	662	

* 8354 + 53. – Soaked in large quantity H_2O till free of KOH, then dried + recrystallized at 150 °. Assumed molecule changed 7 to in 10 of KOH

Caliper after repressing 8354 | 102 | 105 .06
53 | 104 | 105 .09

See previous page –

Mix was 16 gram
9 graphite
15 nickel

8353 = 5 M green hydroxide
8 + 2 temper mix 175 gram
Malaxed – Mix 2 to 6
flake Cobalt, Soak Malaxed
out regular way
1st press 50 — after soaking
+ drying 100 OP + 150 Corrug
Clay 15 h 200 dry 100 – 21%
2.515 $Ni(OH)_2$ 3.4 gram Coke

8354	95	103 + 106
8355	93	102 + 107
8356	94	105 + 106
8357	94	104 + 105

8353	112	86	116	96 – 96
8354	113	88	111	96 – 96
8355	111	91	106	97 – 97
8356	113	93	111	103 – 98
8357	112	98	110	100 – 100

8362	492	542	533	539	543	547	548
61	498	540	518	527	533	540	53[illegible]
60	493	523	520	530	533	539	53[illegible]
59	495	542	532	537	542	546	54[illegible]
58	494	548	537	546	554	559	55[illegible]

8362	532	525	529	493	514	526	52[illegible]
61	518	512	515	515	500	511	50[illegible]
60	527	522	527	526	512	522	51[illegible]
59	529	522	528	530	520	527	52[illegible]
58	541	538	542	546	529	541	54[illegible]

8362	506	504	505	500	507	501	502
61	492	489	488	486	493	487	487
60	504	503	502	497	502	494	493
59	506	509	511	509	513	507	508
58	520	523	525	522	529	520	522

8362	503	504	505	502	481	495	494	.06
61	495	495	497	494	477	490	491	.00
60	500	502	502	495	476	488	488	.00
59	513	516	517	512	497	511	512	.03
58	526	527	533	526	511	526	529	.36

8358 — 5 Req Ni - mix put in Cups which have been sulphurized to yellow by gwa by passing H_2S that no [illegible] Cups — pres, Req — Chg 15 h 200 dis 100 —

8359	92	103-1[illegible]
	93	103-1[illegible]
8360	93	[illegible]
8361	93	[illegible]
8362	94	103-164

8362	503	495	489	482	485	497	490	477
61	500	492	489	483	486	496	487	479
60	497	490	483	476	478	492	487	477
59	522	511	507	500	503	517	510	498
58	537	530	530	525	522	537	531	524

8362	488	482	474	456	463	469	464	465
61	486	479	467	456	457	457	456	463
60	482	477	464	456	457	464	457	464
59	506	503	492	478	483	497	487	487
58	527	527	514	511	511	522	510	515

Balance of sums on sheets

8363 5 M Reg mix - Cups heavy
plated with Cadmium, have
been plated about 1/1000 to 1½/1000
but not to close tolerance, excellent
the plating is good —.
21% phenol red
Cly 15th 20 p. hrs 10 d

8364

8365

8366

8367

8372	347	497	497	497	503	500	497	495
71	347	488	508	513	505	517	503	500
70	183	489	460	443	457	490	508	495
69	406	510	510	508	503	510	500	495
68	358	497	497	497	485	497	495	497

Note – The copper plates over on the 3e.

8372	498	493	495	495	503	493	475	
71	515	495	500	498	507	497	487	
70	520	497	500	500	507	495	487	
69	500	487	483	490	495	485	477	
68	498	470	473	477	485	477	465	

C.O.

8368 – 5 Reg Mix M1
Cups heavy plated with Copper but rotor so heavy as to close holes up
21% Reg prem
Chg 15 h 200 d → 100

8369	95 97	105-115 105-115
8370	97	107-114
8371	94	107-115
8372	94	107-115

8375	200	238	232	202	188	C.O.
74	220	217	195	158	155	
73	202	193	162	161	157	

8373 3 Ni Green Hydrophile
7 + 3 Sponge mix 1.5 grammes
Molasses the 3 is [illegible] flake Nickel [illegible]
Soak molasses out sequence [illegible]
[illegible] by rolling [illegible]
1st [illegible] 50 — after Soaking + drying
100 SP + 100 Corrig
Mg 15 h [illegible]
3.1 gra[illegible]

	86	95–94
74	87	92–93
8375	85	93–95

8376	300	242	200	170
77	327	235	232	197
78	290	260	238	207

C.O.

8376 Sample 8373 straight
after smoking [illegible]
S.P 100 [illegible]
[illegible]

377	88	92–97
	88	93–98
8378	90	95–95

8341	225	267	238	204
50	260	235	208	180
79	269	247	202	174

C.O.

8379 [illegible] 200 [illegible]

8356. 89 94-94
91 95-96

8381 92 95-96

8384	62	59	80	87	87	85	
8[illegible]	68	78	65	102	100	99	C.O.
82	63	62	54	88	86	87	

8382 5 [illegible] Hydro[illegible]
8 + 2 [illegible] 1.5 [illegible]
[illegible] Sodium [illegible]
[illegible]
[illegible] after [illegible]
[illegible] 75
Chgd. 15 h [illegible] H.
[illegible]
[illegible]

8385	97	103 – 103 [illegible]
8384	93	104 – 103
8385		
8386		

8387	S.L. 3878	62	82-85
9388	S.L. 3879	65	87-82
389	S.L. 3880	62	82-79
390	S.L. 3881	61	81-84
391	S.L. 3882	64	86-85
392	S.L. 3883	67	85-83
393	S.L. 3884	65	85-84
394	S.L. 3885	64	83-83

8395 =	S.L.	3886	63	83-83
8396 =	S.L.	3887	64	86-85
8397 =	S.L.	3890	58	84-80
8398 =	S.L.	3891	61	84-82
8399 =	S.L.	3892	59	105-104
8400	S.L	3893	95	103-105
8401	S.L	3894	59	85-87
8402	S.L.	3895	69	87-87

8403 = S.L 3886 70 84-86

8405 = S.L 3887 70 87-88

8406 = S.L. 3888 62 8079

8407 = S.L. 3889 63 79-80

8408 Dup of 4382
Except 64 - Flinks Copper

8409

8410

8411

8412

8417	S.C.	Pocket unwrapped				
16	314	307	287	287	293	C.O.
15	317	294	293	300	311	
14.	300	287	270	267	281	
13.	S.C.	291	260	253	274	

8413 — [illegible]

yuca 2190° No specific, = [illegible] 14-15

Sufficient put in pockets to calipers after very pressure 85 To 95 in Center

after you have found out the amount by weight that will give their calipers — use the same weights in all — the cups

Clay 15 h 200 dec 100 21%

Weight of material in cake = 2.920 g.

8414 — [illegible] 93 [illegible]

91 [illegible]

8415 92 102-106

8416 94 103-104

8417 [illegible] 92 102-103

8422	130	187	167	160	167	158	
21	128	198	180	155	167	155	C.O.
20	108	180	150	153	150	157	
19	118	187	168	155	167	157	
18	112	177	165	147	165	167	

8418 –
2193 gloa
Urea in same way as 8413

8419 [illegible] 102–102

8420 [illegible]

8421 [illegible]

8422 [illegible] 102 – 98

8427	213	308	280	263	253	243	
26	215	307	275	260	255	248	
25	205	292	263	230	237	230	C.O.
24	150	290	248	230	237	232	
23	197	290	243	222	233	232	

8423
Jwa 2191 –
Use in same way as 8413

Gator – 2,600 [illegible]
93 [illegible]

8424 [illegible]

8425 [illegible]

8426 [illegible]

8427 [illegible]

Note

8428 Sept.
Jwa 2191 - use same as 8413

8429

8430

8431

8432

8437	210	198	178	158	167	160	
36	190	S.C.	152	S.C.	S.C.	187	
35	188	173	180	183	S.C.	187	C.O.
34	210	208	163	167	178	167	
33	200	213	190	167	178	168	

8433 =
Iwa 2192 = Use same as 8413
Except break up big lumps carefully
so they will be about uniform numbers
as others —

8434

8435

8436

8437

8442	183	158	143	115	133	123	
41	193	158	143	128	133	128	
40	197	160	150	130	145	133	C.O
39	Split Pocket						
38	205	167	155	142	150	143	

8438 =
2188-fl.a Use same as 8413

	2.7 gm Cube	
8439	8.8	101-100
	8.9	[illegible]
8440	8.8	102-101
8441	8.9	[illegible]
8442	8.9	[illegible]

8447	253	312	250	217	232	213	
46	282	337	270	233	248	223	
45	272	327	253	217	238	213	C.O.
44	262	300	242	198	220	195	
43	233	267	232	185	198	185	

8443 –
Java 2175 [illegible] 8413

		90	[illegible]
8444	[illegible]	92	[illegible]
8445 –	[illegible]	[illegible]	[illegible]
8446		93	[illegible]
8447	[illegible]	95	[illegible]

8452	125	213	200	182	198	192	
51	130	220	210	187	213	197	
50	130	218	205	185	205	198	C.O.
49	132	218	207	185	222	195	
48	123	223	207	195	220	198	

8448 — [illegible]

Jwa 2184 = [illegible] 8413

216 g. [illegible]

	92	[illegible]
8449	94	[illegible]
8450	92	102-100
8451	91	100-102
8452	95	98-103

8457	162	195	178	150	172	145	
56	143	150	125	81	81	97	
55	170	205	178	150	173	153	C.C.
54	172	205	187	167	182	162	
53	170	205	187	158	182	162	

8453

from 2186 – Leucocytes no. 8413

249 g Guinea

8454	94	103–97
8455	94	[illegible]3
8456	9[illegible]	[illegible]
8457	94	102–101

8462	143	175	175	133	165	143	
61	165	192	192	158	147	162	
60	137	157	152	132	100	130	C.O.
59	87	115	100	70	113	97	
58	153	183	180	145	167	150	

8458
Jwa 2187 = [illegible] 8413
2 2 g. [illegible]

8459	92	[illegible]
	92	101–105
8460	94	103–101
8461	93	101–98
8462	91	107–106

8467	135	231	267	200	233	228	
66	118	216	247	198	222	215	
65	125	215	247	192	223	213	C.O.
64	120	220	238	200	230	218	
63	117	222	238	203	225	210	

8463
Jiva 2185 Uses same as 8413
217 g. [illegible]

8464	111	[illegible]
	93	101-102
8465	88	95-100
8466	92	101-105
8467	92	101-103

8472	203	235	267	229	247	243	
71	210	230	267	263	268	260	
70	190	247	272	233	247	337	C.C.
69	188	227	247	242	238	237	
68	205	260	278	287	280	275	

8468
para 2180 – use volume no 8413
2.5 g [illegible]

8469	89	100–104
	84	91–97
8470	88	100–95
8471	89	89–104
8472	87	93–95

8477	85	162	216	158	190	180	C.O.
76	67	133	188	153	165	158	
75	77	161	221	167	197	187	
74	50	97	147	107	130	113	

8473

grua 2177 [illegible] 8413

[illegible]

8474 91 [illegible]

8475 [illegible]

8476 [illegible]

8477 [illegible]

8482	142	203	223	166	213	207	
81	142	200	220	165	215	197	C.C.
80	127	183	212	153	197	203	
79	125	187	217	160	197	189	
78	128	192	224	167	206	195	

8478

fwa 2181 — [illegible]

8413 —

2.7 g [illegible]

[illegible] — 72 [illegible]

8479 72 [illegible]

8480 [illegible]

8481 [illegible]

8482 74 [illegible]

8487	242	265	288	262	273	267	
86	243	277	299	277	283	267	C.O.
85	263	262	285	262	265	252	
84	258	297	313	298	307	277	
83	270	297	310	291	295	273	

8483 —
Iwa 2179 Use same as 8413 —
2.5 gal. [illegible] 50 al.

8484	87	101-104
	87	101-98
8485 —		[illegible]
8486	87	100-102
8487	87	100-102

8492	177	225	243	175	217	197	
91	177	220	245	177	215	200	C.O
90	195	238	263	187	230	210	
89	175	211	236	167	206	197	
88	167	210	243	177	212	203	

"

8488
Pwa 2178 Uncovered 8413

		2[illegible]
8489	91	102-104
	93	103-105
8490	93	104-105
8491	92	104-104
8492	95	1[illegible]-1[illegible]

8497	258	323	355	295	333	313	
96	262	328	358	295	343	323	C.C.
95	267	300	333	267	300	287	
94	268	321	358	293	330	307	
93	248	317	347	273	327	283	

8493-
Jud 2176 - [illegible] no. 8413

8494	89 91	92-97 [illegible]
8495-	89	96-98
8496	93	101-101
8497	90	103-103

8502	292	333	352	313	325	300	
01	295	347	372	315	337	315	C.C
00	298	343	375	323	332	312	
8499	302	339	365	331	345	322	
98	282	320	345	305	320	310	

8498

gwa 2183 – [illegible] 8413

2.7 [illegible]

8499	93	99–104
8500	94	[illegible]
8501	91	100–95
8502	92–	99–95

[illegible] 8502 117.9

8501	117	103
8500	117	95
8499	150	105
8498	17	22

8507	100	145	157	120	133	128	
06	123	150	100	122	140	128	C.C
05	128	155	172	127	143	138	
04	103	150	155	97	160	117	
03	132	158	178	125	150	140	

8503 =
fwa 2189 = [illegible] 8413

8504 [illegible]

8505 [illegible]

8506 - [illegible]

8507 [illegible]

8510	0	7	3	4	33	27	20	26
09	0	7	4	4	33	26	20	20
08	0	7	4	7	33	25	25	30

8510	25	26
09	22	23
08	22	27

C.O.

8508 Green Hydroxide no graphite
3 grammes — gwa 820 Ounces
30% Bismuth —

Make as many cells as the stuff will give
Chg 15 h 200 ohms 100 21

8509 [illegible] [illegible]-85
[illegible]-87

8510 76 [illegible]-75

8511

8512

8513 | 100 | 113 | 153 | 170 | 137 | 125 || [illegible]

15 lbs. @ 200

8513 | 147 | 143 | 133 || Bro. again | 161 | 148 | [illegible]

8513 | 147 | 148 | 149 | 146 |

C.D.

8513 gwa 816 Green Hydroxide
Containing 3% Bismuth.
Make one cup of CaCC —
I think there is enough to
make thin Cake.
Chg 15th 200 lbs 1.20
[illegible]
2.321 [illegible]
5.5 [illegible] 5.5 - 5.5

8514	3	7	0	0
17	3	7	4	0
16	3	7	4	0
15	3	7	0	0
14	3	7	3	2

C.O.

8514 = thru 20 mesh
1/2 gram Green hydroxide
mixed with sufficient Magnesium
powder to make pockets Calcium
85 to 95/100 in density — 1111x ct
well-
[illegible] 125 [illegible]
Cly 15 h2o dro 100 21%

8515 88 [illegible]
86 [illegible]

8516 84 [illegible]

8517 88 [illegible]

8518 90 [illegible]

Use the Regular Magnesium
powder [illegible] of [illegible]

85[illegible]	3	7	3	7
[illegible]	3	3	3	7
[illegible]	3	7	3	0
70	3	3	3	6
19	3	3	3	6

C.O.

8519 – One gram green hydroxide – Hero 20 mech well mixed with Enough Magnesium powder to make Cup Cathode giving 85 to 95/mo in Center – use Reg Magnesium powder out of 6 lg bottle
Chg 15th end of [illegible] 21%
1138 [illegible]

8520	91	104–102
	92	[illegible]–105
8521	90	102–102
8522	88	[illegible]–100
8523	91	103–103

8528	5	5	6	5
27	5	5	3	7
26	5	5	11	15
25	0	12	15	22
24	5	6	15	11

C.O.

Note. Plates over on 7 ss.

8524 2 grammes of Crossin Hydroxyquinoline 20 mcm mixed with 1 gram antiseptic Bismuth Monoxide —
Chg 15 H 200 [illegible] 21%

8525	78 85	86 – 88 95 – 90
8526	85	89 – 89
8527	79	90 – 86
8528	82	90 – 86

8529 | 231 | 233 | 231 | 243 | 240 | 231 | 227

8529 | 237 | 295 | 242 | 262 | C.O.

25) 231 (9.2

8529 = Block Medical hardware
from Carbonator by Mapp
Mix all of it + see if
make one cell
Chg 15 H 200 ohm 100
77 25-35

	1	2	3	4	5	6	7	
8534	703	573	733	608	667	633	723	[illegible]
33	763	533	667	500	575	592	700	[illegible]
32	843	570	703	583	717	683	733	[illegible]
31	800	597	597	567	658	583	720	[illegible]
30	600	570	617	417	467	483	613	[illegible]

5 | 3409
782

	9	10	11	12	13	14	15	
8534	653	733	723	722	723	407	587	[illegible]
33	630	707	690	703	713	427	533	[illegible]
32	653	733	733	727	733	507	627	[illegible]
31	650	733	733	717	720	507	710	[illegible]
30	630	707	687	653	657	430	537	590

5 | 3416
683

	17	18	19	20	21	22	23	24	25	
8534	693	590	713	617	733	723	690	707	687	718
33	623	600	647	497	640	667	640	667	623	630
32	660	667	700	593	700	713	663	700	667	697
31	700	683	713	677	733	733	690	644	700	733
30	593	560	620	494	640	643	600	607	573	600

	27	28	29	30	31	32	33	34	35	
8534	650	693	720	719	593	651	643	577	600	[illegible]
33	600	630	667	667	554	667	573	440	533	[illegible]
32	650	667	720	717	593	690	640	533	583	[illegible]
31	653	710	733	720	677	730	667	537	643	[illegible]
30	593	600	627	600	517	600	533	338	477	[illegible]

5 | 2416
583

8530 = Fe 21% KOH

Make group of 5 - Fe's 4 gum. flavin
of sample from Fe's 1 benzoin.
make up avg. with 2 - 5's gum his.
ch 1st run. 24 hr at 200, with
second run avg.

	81		93-97
8531	86		90-96
8532			[illegible]
8533			73-91
8534	85		73-88

	37	38	39	40	41	42	
	665	733	733	733		763	
	613	707	733	747			
	583	649	643	727			
	537	400	451	390			
	500	232	227	190			

5 | 1217
243

@ 500

	1	2	3	4	5	6	7	8
8536	633	667	580	500	558	558	613	723
8537	733	690	653	500	575	658	667	723
36	620	573	620	450	467	492	600	733
35	867	633	713	542	608	650	737	710

Sample

	9	10	11	12	13	14	15	16
8538	633	703	667	690	733	533	583	683
37	637	717	767	760	800	437	559	570
36	600	680	693	717	723	413	560	560
35	650	800	800	800	800	516	823	700

	17	18	19	20	21	22	23	24	25
8538	607	577	600	553	633	627	560	600	600
37	577	580	580	513	600	627	567	600	593
36	543	533	533	493	540	547	500	573	533
35	690	657	683	600	607	687	637	600	667

	26	27	28	29	30	31	32	33	34	35			37
8538	600	541	533	527	577	517	540	533	533	477		3.0	317
37	619	607	540	628	640	560	613	573	577	547			373
36	573	513	543	743	547	510	533	573	433	467			333
35	703	693	733	750	730	633	733	703	653	640			333

Sample

	38	39	40	41	42
8538	260	333	348	333	275
37	267	327	333	333	287
36	230	250	293	333	232
35	383	467	533	478	465

Physiologic [illegible]

#8535. Fr — 21% KOH.

Make group 5 cells of following mix. 24.5 gm Sample Fr. (Bergquist)
4.5 " Defer (HgO gt/gm Pom 3)
Mix dry by rolling
Make 4. gm cells as reg Fr —
& assemble with 2 — 3.5 gm lit.
cle 1st run 24 hrs at 4 mo.

[illegible] gm [illegible]

#8536 [illegible] 73 [illegible]

#8537 81 [illegible] — 71

#8538 86 [illegible] — 75

#8539.

8544								
43	10	10	23	0	0	17	60	77
42	10	13	27	0	10	17	33	3[illegible]
41	7	10	26	8	8	17	50	4[illegible]
40	7	10	26	0	0	0	40	4[illegible]

8540. Fe — 21% KOH.

Make mixture of
25.5 gm. Cat from Fe[illegible]
41.5 " Dolom —
Triple - 4 g mix crude — Remove 2-3 N[illegible]
in 24 hrs at 400 1st mix
[illegible] mix 4 g of Fe —

8541

8542

8543

8544

						@500	
8547	508	515	557	529	533	408	417
46	515	520	535	530	533	467	475
45	510	518	543	542	547	458	483

8547	515	524	532	525	521	525	52[illegible]
46	533	586	533	527	522	533	52[illegible]
45	527	542	542	526	522	532	5[illegible]

8545. Li.

Jump of 3 Reg Li in clamps for inductance.
3.2 gum # Reg Li mix -
Run with 2 Reg Fels 21% KOH -
screw of the clamp just enough to hold guide in.
Get several runs reg when -
Then put on inductance -

	91	101-105
546.	89	100-101
547.	90	101-100

						@ 500	
8550	467	633	737	706	736	308	333
49	477	587	673	647	675	297	292
48	497	612	700	662	708	292	300

8550	727	722	736	728	706	737	730
49	658	653	655	667	643	669	664
48	687	689	692	707	674	697	704

25548. Li.

Proof of 3 Reg Li in charge for ordnance
3.2 gms Reg Li Cl
Run with two Reg Fe 33% KOH.
Put in charge & put underlight pressure —
Measure the pressure after 1st run —
Run several runs & put on ordnance —

	93	104-104
25549	94	103-103
25550.	90	101-99

8555	290	490	557	450	500	483	693	900
54	287	467	513	408	417	433	613	767
53	260	450	467	367	400	408	600	733
52	263	440	490	367	408	408	600	733
51	267	430	467	333	350	333	550	667

8551 Fe.

Proof of Sn Fe2 recorde from hydrofluoric mix which was rolled in milled rollers by passing through Sn Hammer — H gun cake — Run with 2-3.5 lbs chg x mm reg.
The mix from Hg, in it.

8552	59 56	75 — 72 74 — 73
8553	59	72 — 72
8554	58	76 — 76
8555	57	72 — 71

done

3554. Time was wanted for
Warren with 1 eq. H.S. & a-
gainst 2 eq. only 7/43 3.2 grams
in next two [illegible]
Quin eq. in 33 o/o KOH.

3557

3558

3559

3560

8565	363	365	347	315	318	297	—
64	362	360	332	315	323	296	—
63	365	362	330	315	318	295	—
62	S.C.	397	339	327	332	295	—
61	367	364	346	332	333	308	—

C.O.

141
35
106
141
141
363

2 | 363
3 E.C.
3 Dry
1 4

2

3 | 363
121
1 4

8561 — 5 ni no graft made from beg. Cat Hypo'd 3 years ago — 21%
3 [illegible] —
Chg 15 h 200 [illegible] —

8562	124 (124 mm)	97	119 (110)	107-106 / 106-109
8563	[illegible]	96	[illegible]	[illegible] 107-107
8564	120	95	120	105-102
8565	124	102	120	114-108

		C	R
8566 = S.L. 3496		32	[illegible]
#102			
8567 = S.L. 3497		51	[illegible]
8568 = S.L. 3500		64	[illegible]
#103			
8569 = S.L. 3501		65	[illegible]
8570 = S.L. 3502		[illegible]	[illegible]
#116			
8571 = S.L. 3503		[illegible]	[illegible]

8572 | 300 | 297 | 297 | 298 | | 25 | 152 | 3[illegible]

8572 | 305 | 298 | 300 | 297 | 300 |

8572 = Green [illegible]

[illegible]

Filtered 24 [illegible]

[illegible] KOH [illegible]

[illegible] S.P. [illegible]

[illegible]

Clip, 15 [illegible]

made by J.H.B.

[illegible]

11 after 11 = 89½ 100-100

8575	2	7	106	260	253	C.O.
74	2	6	5	7	7	
73	2	9	0	Pocket exhausted.		
8577	0	63	105	108		
76	2	25	137	131		

8573 2/11/20

Group of [illegible] made up of 3.

3.2 pm [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

	60	71-72
8574	53	72-67
[illegible]	64	71-73
76	62	72-73
8577	57	67-67

				← Tightened clamp			← Tightened clamp	
8578	293	300	286	283	270	267	28[illegible]	
8578	300	313	319	333	375	367	35[illegible]	
8578	372	383	390	412	412	393	400	
8578	402	398	392	379	373	392	38[illegible]	
8578	368	Tightened clamp		427	417	429		
8578	444	440	431	420	408	408	40[illegible]	
8578	408	400						

8578 = 4.5 grams $Ni(OH)_2$ through 20 mesh and 1 gram of .00025 flake Mica 600 mesh grained [illegible] in a S.2 grams cake die 75 at. 50 at. S.P. Lin. speed 4 & 100 in 30% KOH then placed 100 S.P. Ex. 75 210/0 chg. 15 h. 200 discharge — made by S.H.E.

	C	F
Bulging before soaking	91	103-103
" after drying	86	97-100

8581	343	380	336	326	333	342	342
80	375	362	372	363	377	397	401
79	375	367	364	352	356	366	376

8581	347	347	358	378	397	330	335
80	397	396	405	425	433	414	405
79	365	367	374	397	401	383	3[illegible]

8581	330	333	333	322	322	320	32[illegible]
80	405	410	410	394	408	403	41[illegible]
79	373	372	360	367	373	372	3[illegible]

8581	318	322	327	325	324	328	3[illegible]
80	408	427	413	413	427	417	4[illegible]
79	372	382	382	380	392	400	4[illegible]

8581	320
80	418
79	400

F.1

8579 = Mix of 9.5 g. [illegible] Nydrole, .5 g. [illegible] and .5 g. [illegible] with 2 g. Molasses. [illegible] 48 hrs on 5% [illegible] at 50 d. then dried [illegible] 21%
3.5 [illegible]

8580 = [illegible]	84	90-93
	85	94-93

8581 = [illegible] 85 94-93

		C	E
S582 =	S.L. 3904	62	86-87
	#79		
S583 =	S.L. 3905	63	86-88
S584 =	S.L. 3906	62	83-83
	#100		
S585 =	S.L. 3907	65	81-80
S586 =	S.L. 3908	67	86-83
	#115		
S587 =	S.L. 3909	63	84-82
S588 =	S.L. 3910	70	91-90
	#128		
S589 =	S.L. 3911	70	91-92
S590 =	S.L. 3912	66	86-84
	#80		

			c	E
		#80		
8591	=	3913	06	86–89
8592	=	3914	07	91–93
		#106		
8593	=	3915	07	95–97

8598	312	333	366	327	342	408	[illegible]
97	300	332	362	328	336	400	[illegible]
96	332	350	374	345	354	417	[illegible]
95	332	352	372	347	347	412	[illegible]
94	300	333	348	334	329	389	[illegible]

8598	324	327	325	312	322	302	[illegible]
97	324	323	325	315	320	313	[illegible]
96	338	349	342	330	333	317	[illegible]
95	338	343	332	324	323	313	[illegible]
94	325	327	303	300	300	300	[illegible]

8598	297
97	298
96	303
95	295
94	265

C.O.

8594

Proof of 6 [illegible] number of [illegible]

[illegible] number of [illegible]

of 15 lbs [illegible]

Pulled up 3 [illegible]

	90	103–101
[illegible]	93	[illegible]5–104
[illegible]6	93	104–105
[illegible]7	92	[illegible]–104
[illegible]8	91	104–104

85549.
[illegible] #5713
[illegible]

8604	418							
03	457	443	415	422	412	432	42[illegible]	
02	441	445	412	420	410	432	42[illegible]	
01	460	457	413	422	412	432	42[illegible]	
00	442	458	425	430	420	445	43[illegible]	

8603	397	414	400	413	400	405	3[illegible]	
02	399	413	403	417	400	383	3[illegible]	
01	398	400	408	425	413	388	4[illegible]	
00	411	428	417	428	422	415	4[illegible]	

8603	389	380	398	392	391	389	39[illegible]	38[illegible]
02	342	329	342	333	333	337	33[illegible]	33[illegible]
01	395	387	405	398	397	397	39[illegible]	39[illegible]
00	400	397	417	409	408	408	40[illegible]	40[illegible]

8603	372	380
02	267	267
01	384	389
00	394	396

8600 [illegible]
Proof of [illegible] 102 [illegible]
of Reg Issue # ____
[illegible] 210 LOH [illegible]

	91	102-100
01	93	101-106
02	91	101-100
3	91	103-99
04	93	103-105

8609	427	400	388	390	383	414	417
08	430	410	392	393	392	415	418
07	433	410	388	392	388	413	417
06	435	410	390	393	390	413	415
05	432	412	390	390	388	413	417

8609	388	411	393	412	412	413	[illegible]
08	390	412	397	410	413	425	[illegible]
07	387	400	395	400	400	415	[illegible]
06	387	398	393	413	398	425	[illegible]
05	390	407	400	400	400	405	[illegible]

8609	415	400	420	411	419	417	42[illegible]	411
08	410	400	420	411	417	415	41[illegible]	408
07	411	397	418	410	411	409	41[illegible]	404
06	417	407	426	420	422	423	42[illegible]	417
05	333	320	308	267	267	333	[illegible]	167

8609	407	410	406	405	407	409	40[illegible]	406
08	400	408	400	405	395	395	38[illegible]	390
07	399	400	400	403	400	408	40[illegible]	406
06	415	419	420	422	417	424	42[illegible]	425
05	100	77	67	14	11	10	3	1
								[illegible]

*Q[illegible]
in 8605

8605.
[illegible]

	90	102-99
606	92	100-101
607	93	102-104
608	93	101-100
609.	93	101-106

8609	404	395	390	389	392	367	395	406	Ashmore Plume
08	388	385	358	358	355	345	343	362	or Plume
07	404	407	390	390	392	365	392	404	
06	425	427	408	408	408	390	406	417	
05	408	445	439	447	450	420	462	478	

8614	432	400	393	395	395	423	420
13	420	408	387	390	387	417	417
12	422	408	395	400	400	440	432
11	160	278	333	333	337	363	347
10	260	333	345	338	337	363	347

8614	407	400	412	425	427	433	[illegible]
13	388	412	400	410	415	413	[illegible]
12	407	428	423	438	433	433	[illegible]
11	307	300	265	215	197	200	[illegible]
10	313	317	292	290	300	255	[illegible]

8614	419	397	415	406	408	403	409	393
13	414	390	404	392	392	379	381	388
12	426	407	430	421	426	433	425	412
11	74	33	33	17	17	17	14	17
10	100	54	33	33	40	50	53	116

8614	392	400
13	407	420
12	406	411
11	16	17
10	100	97

10 [illegible]

	92	100–103
11	92	98–102
12	91	101–102
13	93	100–101
8614	91	101–101

8619	428						
18	422	390	388	395	395	415	415
17	428	392	387	393	392	413	417
16	432	392	385	390	392	413	415
15	431	390	387	390	392	412	417

8618	403	413	415	423	420	440	[illegible]
17	398	410	400	412	412	428	[illegible]
16	397	412	410	410	418	417	[illegible]
15	392	403	393	413	412	427	[illegible]

8615	423	417	439	439	442	446	450	440
17	406	400	414	410	415	412	411	405
16	423	417	437	435	438	442	446	436
15	407	403	422	417	422	422	426	417

8618	445	452	452	453	467	463	462	[illegible]
17	400	390	396	402	395	393	385	[illegible]
16	439	445	438	433	445	452	441	[illegible]
15	417	425	422	422	426	429	422	[illegible]

8618	467	443	458	462	467	452	475	48[illegible]	[illegible]	469	467	473	463	475
17	388	362	377	348	377	333	387	387	[illegible]	[illegible]	381	381	380	383
16	448	442	442	442	444	417	455	462	[illegible]	[illegible]	437	450	453	428
15	423	413	414	412	409	365	410	417	[illegible]	[illegible]	408	408	382	410

615

[illegible] 94 102-107

616 91 102-99

7 90 100-105

[illegible] 92 103-104

[illegible] 92 102-104

8624	447	437	428	427	439	433	438
23	448	435	430	434	444	442	440
22	440	428	422	427	432	428	433
21	447	430	425	435	437	437	439
20	460	437	437	448	455	457	450

8624	440	441	448	452	451	452	453
23	447	447	457	463	462	462	457
22	437	437	442	446	447	444	447
21	447	447	452	462	459	460	463
20	460	462	469	480	477	478	472

8624	450	452	446	436	458	457	457
23	460	458	461	448	473	471	472
22	440	445	442	437	455	452	453
21	463	456	457	446	469	465	469
20	485	492	472	470	487	484	487

8624	462	463	452	457	458	459	463	462
23	474	477	463	467	471	473	482	477
22	456	472	471	477	479	481	480	487
21	472	473	461	464	468	469	480	474
20	489	491	490	484	485	483	487	490

120.

[illegible] 15% [illegible] Liott

	93	101-101	
21	91	100-101	
22	91	102-101	
8624	90	92-101	
23	93	104-104	

8624	464	467	467	467	467	462	457	460
23	478	474	482	480	480	471	464	472
22	487	487	492	488	500	484	482	486
21	476	471	477	476	467	466	464	469
20	492	486	492	487	482	481	479	486

8624	425	462	467	467	468	465	475	balance
23	429	473	481	472	478	483	487	of runs
22	445	489	495	494	494	497	498	
21	432	474	480	472	477	490	483	on sheets
20	450	491	499	492	491	492	493	

← Probability
← Cell inside Bacilli
← Cell inside
← Cell outside
← Quer = 7(109) =

8629	415	397	18	50	62	80	90	7[illegible]
28	417	397	20	20	45	53	63	[illegible]
27	417	405	18	43	50	66	78	[illegible]
26	410	405	18	45	52	66	74	[illegible]
25	400	407	22	61	72	92	112	[illegible]

8629	110	107	100	97	108	98	97
28	82	78	72	77	80	77	75
27	100	107	97	100	109	112	103
26	82	75	64	65	47	63	53
25	133	128	125	122	133	133	132

8629	107
28	83
27	149
26	65
25	137

C.O.

25

Proof of [illegible] of
Cells in [illegible] of
[illegible] 1913 [illegible]
[illegible] 6 [illegible]
[illegible] 3 gr.

	92	103-101
	92	102-102
129	93	101-101
129	91	101-102
129	92	103-101

8634	640	633	636	717	662	653	646
33	647	645	648	723	672	664	66[illegible]
32	646	645	649	723	672	662	[illegible]
31	650	651	656	732	676	668	669
30	655	657	659	732	681	672	67[illegible]

8634	655	656	658	654	653	647	6[illegible]
33	670	671	672	670	670	667	[illegible]
32	669	668	673	667	666	662	658
31	675	676	678	675	672	672	67[illegible]
30	682	683	689	681	680	679	683

8634	657	641	653	649	653	662	64[illegible]
33	675	658	677	673	683	688	67[illegible]
32	670	653	677	667	682	683	66[illegible]
31	678	663	681	681	692	692	67[illegible]
30	685	672	686	688	700	730	6[illegible]

8634	643	649	637	640	645	673	6[illegible]	623	673	642	641	627	621	642	629	623	623
33	679	680	666	673	675	690	6[illegible]	653	6[illegible]	672	672	650	644	667	654	647	650
32	670	672	658	667	665	667	6[illegible]	649	660	665	665	647	644	667	651	646	648
31	677	682	667	675	675	683	6[illegible]	655	67[illegible]	677	678	653	649	672	656	648	653
30	688	690	680	688	687	687	68[illegible]	66[illegible]	68[illegible]	687	690	668	661	683	664	660	664

8630 – 2 cups in one grid
2 grammes Sequeira mix in Cricle
Cup – 4 grammes silk hopelessness,
~~Reg~~ 5 [illegible] 1 to Corrug 150,
21% Clay 15th 200 dio 150

	112	111 – 116
	109	111 – 115
8631	117	113 – 115
	111	117 – 114
	111	116 – 113
8632	103	107 – 106
	105	113 – 107
8633	104	[illegible] – 113
	107	104 – 114
8634	104	115 – 114

Same cont'd on following page.

8634	628	622	626	618	617	617	568	61[illegible]
33	656	652	652	641	643	647	593	6[illegible]
32	654	650	650	639	642	645	592	6[illegible]
31	658	655	656	644	647	650	597	6[illegible]
30	669	664	664	654	657	658	602	6[illegible]

8634	626	618	618	622	623	622	627	47
33	649	646	643	650	650	648	650	
32	647	644	643	652	650	648	648	
31	652	650	647	655	655	657	637	
30	662	662	659	663	667	670	665	

	101	
8634	567	
33	598	
32	545	
31	567	
30	595	

Sp Cent gist d — make Cakes

8635 = 2 Cups on one grid
2.5 grams Reg Mix on Sixth Cup —
5 grams [illegible] all together —
Spread on 100 Corning 150 —
21 1/2 Cling 15 h 200 slab 100
[illegible]

8636

8637

8638

8639

8647	243	327	350	350	377	350	[illegible]
41	222	327	304	352	385	358	[illegible]
40	233	320	372	351	377	348	[illegible]

8642	343	342	333	332	338	336	[illegible]
41	353	354	347	341	360	333	[illegible]
40	357	354	347	342	360	337	[illegible]

8642	318
41	327
40	327

C.O.

8640 - Museum No. [illegible]

[illegible]

	94	108-107
8641	97	109-110
	[illegible]	[illegible]
8642	95	105-106
8643		
8644		

	1	2	3	4	5	6	7
8649	253	252	248	251	257	262	260
48	240	235	233	245	255	250	265
47	240	236	233	238	244	250	250
46	300	333	273	292	267		251
45	245	243	243	251	256	260	261
			246				

Average on 3rd run 246 = 140.5 per square mm

	8	9	10	11	12	13	14
8649	267	262	265	262	255	265	258
48	262	262	263	267	267	270	267
47	250	247	255	248	250	265	248
46	252	251	262	260	267	267	265
45	264	260	262	260	260	267	262

	15	16	17	18	19	20	21
8649	267	263	263	267	256	257	257
48	383	282	280	288	271	280	273
47	267	257	257	258	252	250	252
46	277	280	278	283	273	278	276
45	267	273	267	273	263	266	263
	262.2						

	22	23	24	25	26	27	28
8649	256	266	257	257	257	254	257
48	280	288	277	280	276	271	275
47	256	263	250	253	250	248	249
46	277	288	277	265	272	270	277
45	237	267	265	265	262	260	262

*

8645 — Group [illegible] —
Smooth [illegible] 100 Corrugate 150 —
1.75 [illegible]
Chg 15 to 200 [illegible]

St-46 [illegible]	52	62-74
	74	77-77
8647	72	74-74
8648	70	72-73
8649	73	71-75

	29	30	31	32	33				
8649	249	250	250	253	250	248	250	247	
48	262	263	267	266	265	263	262	255	
47	241	243	243	245	243	244	243	237	
46	264	265	267	267	267	265	262	257	
45	253	255	250	257	257	255	250	248	
	253.8								

	1	2	3	4	5	6	7
8654	233	300	300	300	307	313	326
53	311	308	309	308	322	327	341
52	303	297	302	313	308	313	320
51	310	312	312	314	315	318	316
50	303	298	300	300	300	307	309
			304.6				

Av. 3rd run 304.6 = 152.3 per sq. of water

	8	9	10	11	12	13	14
8654	323	322	332	333	332	342	346
53	340	341	350	355	355	362	367
52	317	317	323	320	327	328	323
51	320	317	327	323	327	328	312
50	308	303	311	308	315	313	300

	15	16	17	18	19	20	21
8654	340	338	341	345	331	337	333
53	378	367	371	377	363	374	373
52	328	308	325	329	321	324	312
51	327	323	322	327	317	318	320
50	308	311	310	318	311	310	315
	332.2						

	22	23	24	25	26	27	28	29	30	31	32	33				
8654	333	345	340	330	331	330	330	332	325	327	327	327	325	326	322	320
53	374	383	367	367	367	367	368	372	362	367	367	367	367	367	359	360
52	321	332	323	322	323	320	320	322	313	317	323	317	317	318	318	315
51	324	330	322	318	317	317	316	317	317	244	S.C.	307	307	310	310	307
50	315	318	315	307	306	304	306	300	297	298	300	300	298	300	298	295
									322.8							

*

8650 Dup of 8647
but 2 [illegible]

8651	77	81 — 77
	69	75 — 78
8652	73	79 — 79
8653	65	80 — 79
8654	81	83 — 82

	1	2	3	4	5	6	7
8659	357	357	357	355	367	372	[illegible]
58	357	357	362	356	377	377	39[illegible]
57	351	358	358	357	383	372	38[illegible]
56	357	361	362	372	372	372	385
55	365	363	366	358	367	375	375
			361				

Av. 3rd row 361 = 160.4 per sq. of mi.

	8	9	10	11	12	13	14
8659	385	386	397	394	397	400	400
58	390	392	399	399	405	412	412
57	365	389	395	395	397	407	405
56	390	390	399	372	407	412	413
55	375	372	383	385	382	388	367

	15	16	17	18	19	20	21
8659	410	400	400	412	398	405	[illegible]
58	418	412	413	425	410	417	[illegible]
57	412	406	407	418	396	403	[illegible]
56	422	416	417	431	412	422	[illegible]
55	383	377	374	388	373	377	[illegible]
	409						

	22	23	24	25	26	27	28
8659	400	409	400	400	396	400	[illegible]
58	417	420	415	412	408	410	[illegible]
57	400	405	397	393	388	390	[illegible]
56	425	5C	417	419	417	418	[illegible]
55	377	385	333	375	367	372	[illegible]

	29	30	31	32	33				
8659	400	395	397	395	[illegible]	396	397	396	395
58	412	407	408	406	407	405	407	402	412
57	393	385	388	385	387	383	384	383	382
56	421	417	420	417	421	419	420	417	417
55	370	364	367	367	368	367	367	[illegible]	365
		363.6							

8653 Dupaf 8645
Except 2.25 frame Reg. Mix

8656	82	85 – 83
	78	81 – 81
8657	78	81 – 80
8658	77	79 – 82
8659	78	82 – 82

	1	2	3	4	5	6	7
8664	400	407	408	415	415	423	428
63	406	410	414	422	425	433	442
62	388	395	393	400	408	415	427
61	395	398	400	387	407	407	415
60	393	387	401	387	390	407	416
			403.2				

Av. 3rd min 403.2 = 161.3 per q. of min.

	8	9	10	11	12	13	14
8664	431	432	440	440	447	452	441
63	438	442	449	453	460	463	460
62	377	433	447	445	457	462	45[illegible]
61	417	417	423	420	428	437	4[illegible]
60	411	409	413	410	412	430	412

	15	16	17	18	19	20	21
8664	452	410	442	457	437	444	436
63	465	458	460	472	456	464	455
62	465	455	457	471	440	463	453
61	442	425	427	437	422	428	412
60	415	404	403	413	392	392	392
	451.4						

	22	23	24	25	26	27	28
8664	444	453	442	439	440	438	428
63	464	474	462	459	459	457	457
62	458	468	451	451	452	451	450
61	426	434	424	421	420	419	419
60	390	395	385	387	383	379	375

	29	30	31	32	33				
8664	444	437	437	437	433	437	437	433	433
63	464	457	457	456	453	455	457	451	457
62	453	452	450	447	452	446	448	437	441
61	423	417	417	417	419	416	416	414	417
60	377	377	374	375	385	373	374	377	368
		426							

8660 Dup of 8655
Except. 2.5 grain Reg Mix

8661	85	88 – 85
	84	86 – 87
8662	81	85 – 85
8663	85	86 – 84
8664	85	85 – 85

	1	2	3	4	5	6	7
8669	465	453	458	463	465	467	472
68	453	464	468	477	484	487	491
67	451	460	458	463	466	465	472
66	452	460	459	460	462	467	465
65	448	448	453	453	455	465	458
			459.2				

On. 3rd min 459.2 = 166.8 per q. of min.

	8	9	10	11	12	13	14
8669	472	470	481	481	492	490	493
68	495	497	515	513	527	523	52[illegible]
67	472	470	477	480	483	490	477
66	466	465	470	467	472	463	461
65	459	460	465	460	467	465	458

	15	16	17	18	19	20	21
8669	495	478	480	490	477	482	475
68	528	515	517	530	514	521	511
67	493	477	477	487	474	477	472
66	495	462	462	467	455	457	458
65	497	460	461	469	457	458	455
	500.6						

	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
8669	482	491	481	475	476	475	474	481	471	471	472	474	472	470	469
68	519	529	517	508	512	512	509	517	509	511	511	513	512	514	506
67	477	487	475	467	471	468	467	472	463	467	468	471	467	471	469
66	459	468	455	450	451	449	453	454	447	445	449	452	447	448	447
65	458	469	456	450	451	449	450	453	443	446	449	449	447	447	442
									448.6						

8665 Dup of 8645
Except 2/75 grams Rog 44X

8666	90	94 – 92
	86	89 – 90
8667	87	92 – 94
8668	86	90 – 89
8669	90	93 – 100

	1	2	3	4	5	6	7
8674	490	505	505	596	506	512	507
73	491	493	494	505	505	517	526
72	493	508	506	509	510	517	517
71	491	509	507	508	510	512	512
70	492	499	500	507	500	507	500
			502.4				

Av. 3rd sum 502.4 = 167.4 per q. of min

	8	9	10	11	12	13	14
8674	509	507	510	507	518	523	500
73	532	529	540	535	547	542	549
72	512	507	517	512	512	[illegible]	[illegible]
71	508	505	515	511	520	520	509
70	500	497	500	500	507	523	[illegible]

	15	16	17	18	19	20	21
8674	513	500	500	508	497	496	[illegible]
73	560	542	541	552	534	543	522
72	515	498	502	509	500	500	502
71	525	507	507	514	500	503	500
70	510	497	492	499	437	488	[illegible]
	524.6						

	22	23	24	25	26	27	28
8674	498	505	491	487	488	487	497
73	541	553	538	532	536	533	533
72	506	513	498	492	494	491	492
71	504	513	502	496	496	494	495
70	486	497	486	481	481	480	480

	29	30	31	32	33
8674	491	477	479	483	484
73	542	532	532	532	535
72	496	484	486	490	492
71	500	489	490	494	497
70	483	472	474	477	492
		478.8			

8674	483	483	487	482			
73	531	532	524	525			
72	490	491	491	487			
71	492	493	492	489			
70	477	481	481	477			

8670 – Dup. of 8645
Except 3 given Replicates

8671	92	99 – 97
	92	99 – 100
8672	93	96 – 98
8673	90	95 – 94
8674	98	97 – 99

	1	2	3	4	5	6	7
8679	535	548	552	557	557	558	56[illegible]
78	530	535	540	540	543	547	547
77	513	523	520	525	523	532	52[illegible]
76	527	537	542	547	555	561	57[illegible]
75	532	548	545	547	548	555	558
			539.8				

Av. 3rd mm 539.8 = 166 per q. of mm.

	8	9	10	11	12	13	14
8679	563	557	568	563	577	580	57[illegible]
78	550	546	558	552	563	565	55[illegible]
77	532	523	533	527	532	532	52[illegible]
76	575	575	587	588	593	590	59[illegible]
75	555	552	562	557	557	565	560

	15	16	17	18	19	20	21
8679	580	562	562	572	557	563	56[illegible]
78	573	551	552	562	545	552	5[illegible]
77	535	518	519	527	516	517	5[illegible]
76	608	587	588	602	581	592	5[illegible]
75	567	557	557	568	552	556	5[illegible]
	557.6						

	22	23	24	25	26	27	28
8679	566	573	561	553	557	554	5[illegible]
78	554	562	549	542	546	542	541
77	521	529	517	511	512	510	50[illegible]
76	592	602	586	578	585	582	5[illegible]
75	561	569	556	549	552	549	54[illegible]

8675 Recap of 8640,
Except 3125 grams → Req. mix

8676	95	102 – 102
	99	104 – 103
8677	98	103 – 100
8678	95	100 – 100
8679	98	103 – 104

	29	30	31	32	33				
8679	558	549	551	553	559	556	557	557	554
78	546	538	539	542	547	542	544	543	540
77	513	505	506	510	512	510	510	512	508
76	597	579	581	582	587	582	583	579	579
75	555	543	545	547	552	548	550	550	546
		542.8							

	1	2	3	4	5	6	7
8684	580	595	597	603	598	603	602
83	577	595	597	601	593	597	598
82	588	605	610	615	605	610	608
81	575	587	588	595	593	597	603
80	563	575	577	587	580	583	587
			593.8				

Qu. 3rd num = 593.8 = 169.6 per g. of m.

	8	9	10	11	12	13	14
8684	610	598	612	607	617	622	610
83	598	593	608	600	612	617	598
82	610	607	613	610	618	623	603
81	607	600	608	607	617	620	611
80	587	578	588	587	595	598	582

	15	16	17	18	19	20	21
8684	622	599	599	608	592	597	592
83	615	592	592	602	585	587	587
82	620	597	597	606	590	592	591
81	625	604	607	615	600	607	604
80	598	575	575	585	575	574	572

	22	23	24	25	26	27	28	29
8684	598	607	592	586	588	590	585	592
83	592	602	586	580	581	578	573	585
82	596	604	591	584	591	582	582	592
81	611	619	606	599	602	599	593	606
80	577	586	572	566	568	564	562	568

	30	31	32	33				
8684	592	587	585	588	583	585	586	582
83	581	572	577	583	579	578	581	575
82	595	577	583	587	580	583	586	579
81	595	597	600	605	602	603	604	601
80	557	558	564	569	563	565	568	562
	568.2							

8680 10 up of 8645 Except 3.50 grams Reqmnt

8681	96	105 – 110
	100	107 – 106
8682	100	108 – 104
8683	100	104 – 109
8684	99	105 – 106

8685 Dup of 8644
except 3.1/75 gram Re quirk
[illegible]

8686

8687

8688

8689

8690 Dupl of 8645.
Except 4 grains Reg Mux —

8691

8692

8693

8694

8695 – Have Rogers make some deeper cups – want to use up to 5½ grams mix of metal

Dup of 8641 –

Except 4.25 grams use deeper cups –

8696

8697

8698

8699

8700 Dupuy 8645
Except 4.5 quinquequinx

8701

8702

8703

8704

8705 Dup of 8675
Except 4175 [illegible]
Mix

8706

8707

8708

8709

8710 Dup of 8645
Except 5 grams Regulus

8711

8712

8713

8714

8715 – Dupes of 8694
Except: 5.25 grams

8716

8717

8718

8719

8720 Dup of 8645
Except 5.5 grams Reg mix

8721

8722

8723

8724

8725 — 5 ml - 3:2 Kapton

Cup (varnished) with [illegible]
[illegible] before mix [illegible]
[illegible] solution [illegible]
[illegible] SR in H2O, then
Soak 48 hours, [illegible] the
3% KOH solution [illegible],
then dry [illegible] SR in
100 C oven, 150 C
Chg 15 h [illegible]

8726

8727

8728

8729 —

8731½	343	348	343
31	305	330	328
30	343	338	333

Hydroid 8730 by current for ½ hr. Then put back neg. K...

8731½	346	379	358	383	386	386	38[illegible]
31	308	290	307	332	331	328	33[illegible]
30	312	298	315	345	347	342	34[illegible]

8731½	387	392	383
31	330	335	325
30	354	367	352

C.O.

8730 [illegible]

[illegible] 21½ [illegible]

[illegible] 100/cm 150 3.2 [illegible]

96 101 + 102

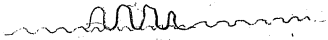
8731 — 92 101 + 101

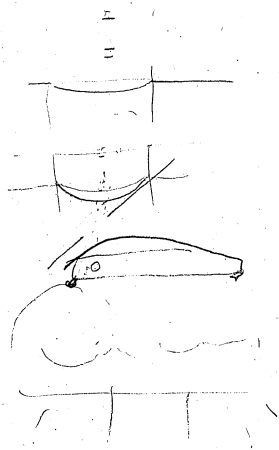
8731½ 93 103 + 103

8730 87 [illegible] 96

8731 84 98 – 98

8731½ 87. 97 – 95





Notebooks by Edison and Other Experimenters
Group 4: Tube Books, Nos. 1-36

The thirty-five extant notebooks in this group (Book 31 has not been located) cover the period July 1905-February 1914. Most entries in the first twelve books are by Edison. The remaining books show a rapid decline in the number of Edison entries. By Book 16, there are only occasional calculations and brief notes by him. Most entries in the later books are by unidentified experimenters. The books contain records of experiments relating to the nickel tubes used in Edison's storage batteries. The tests are numbered from 90 through 9950. Tests 1-89 can be found in N-03-06-19 (see "Notebooks by Edison"), which contains other experimental work and is not included in this numbered group of tube books. A new series of enumerated tests begins in Book 16, with numbers from 1A through 13657 (the "A" is dropped after test 10569). The first page of Book 1 contains the following notation by Edison: "Experiments with perforated tubes & flake metal with various sticky sub[stances] & proportions & manipulations." The tests involved varying the compounds used to hold the nickel flake in the tubes, as well as altering the process by which the flake was tamped down in the tubes. Labels on the front covers of some of the books contain notations by Edison regarding the importance of the data contained therein.

Only the first twelve books, which are primarily by Edison, have been selected.

Book #	N-Number	Label on Front Cover
		[additional information supplied by the editors appears in brackets]

Selected Books

1	05-07-08	"Mix Book #1 #90 to 269 Not wanted *"
2	05-08-30	"Mix Book #2 #269½ to 349 Not wanted *"; "Not very important"
3	06-02-19	"Mix Book #3 Nickel tubes #350 to 569 Glucose"
4	06-06-18	"Mix Book #4 #570 to 1177"

5	06-07-09	"Book #5 1178 to 1674"
6	05-00-00.1	"Book #6 1675 to 2249"
7	07-01-31	"Book #7 2250 to 5099"; "Somewhat Important"
8	07-02-23.1	"Book #8 5100 to 5701"; "Battery Not Important"
9	07-02-23.2	"Book #9 5702 to 6342"
10	07-06-19	"Book #10 6343 to 6988"; "Storage Battery Important Data"
11	07-08-06	"Tube Book #11 6989 to 7570"
12	10-12-00.2	"Tube Book #12 7571 to 8142"; "Not Very Important"

Books Not Selected

13	07-10-31	"Tube Book 13 [8143] to 8700"; "Important Data"
14	10-03-00	"Tube Book 14 8701 to 9156"; "Battery Not very Important"
15	07-08-07	"Tube Book 15 9157 to 9667"
16	07-08-08	"Tube Book 16 9668 to 9950 & #1-A to 211A"
17	07-08-09	"Tube Book #17 #212A to 670A"
18	09-01-01.1	"Tube Book #18 671A to 1025A"; "Storage Battery Important Data"
19	09-03-10	"Tube Book #19 - 1026A To 1599A"; "Battery Not Important"
20	09-04-10	"Tube Book #20 - 1600A To 2037A"; "Storage Battery Important Data"
21	09-09-17	"Tube Book #21 - 2038A. To 2486A."; "Battery Not very important"
22	07-08-10	"Tube Book #22. 2487A. To 2894A"
23	10-03-05	"Tube Book #23 2895A To 3700A Short tubes"; "Not Important Cell"
24	10-04-22	"Tube Book #24 3701A to 4499A Short Tubes"; "Not very Important"

25	10-08-24.1	"Tube Book #25 4500 to 5280A Short tubes to Aug. 27, 10"; "Not very Important"
26	10-08-27	"Short Tubes #26 Aug. 27, 10 to Dec. 10 5281A to 6073A"
27	10-12-27	"Short Tubes #27 Dec. 10 to Apr. 11 6074 to 6915A"; "Not very Important"
28	11-04-26	"Short Tubes #28 April 26, 1911 To July 28, 1911. 6916A To 7782A"
29	11-07-28	"Short Tubes #29 July 28, 11. to Nov. 10, 11. 7783A to 8572A"
30	11-11-10.1	"Short Tubes #30 Nov 10, 11 to Apr 17, [12] 8573A to 9366A"
31	---	[missing]
32	12-08-23	"Short Tubes #32 From 10174A to 10961A Aug 23, 12 to Dec 17 1912"
33	12-12-17.1	"Short Tubes #33 From 10962 to 11757 Dec 17 1912 to Apr 4, 13"
34	13-04-04.1	"Short Tubes #34 From 11758 to 12553 From Apr. 4, 13 To July 21, 13"
35	13-07-21	"Short Tubes #35 From 12554 To 13349 Jul 21 1913 to Dec 3, 13"
36	13-12-04	"Short Tubes #36 From 13350 To 13657 Dec 4 1913 Feb 6 14"

Notebook, N-05-07-08

2000) 80000 (40.

2069 –

Experiments with perforated tubes + flake metal with various sticky and + preparations + manipulations July 8. 1905

No 90 =

18000 Green Thro 80 fumes in
6000 flake NiCo 70/30 Thro 20
8000 of filtered moderately thick Opium Extract, it wasn't runny but thin like table syrup - It acted like glucose, mix not sticky molded just as of wat with water, dries quick & fix to fingers (10) particles - Kind of dry under Micro particles mixed thro flake but all free except at once spot where it touche of flake - Think it no except that merely mixing green & preventing green edges from to bottom will do the trick test - Mix green and (flake) from green that being covered all over.

OVER

90 Continued 50 lamps 3lb 5" Drop

Weight including unstirred 6.755

Cup 277

Lamps 48

3.79 grain

91 Dup of 90

Weight AM 6.685
Caliper 276
Tamps 47

Small crack in one end

3175 gram

Mole - strong gum ambec 29
Mix 15000 green
8000 gum ambro hot strong
Whole si - coarse unmeasurably
strong - would not mix - perhaps
it dry 1 to hours back cold

Whatever wanted apparently
is a thick body that is
highly viscous but not too tenac
+ sticks long time dry
so as gives lumps for mixing

Stopped work saturday
6 pm not enough cake -

92 Dup of 90

Wright active M 6.835
Caliper 277
Yumpo 28
3.84 green

The flake used in 93 is from new bottle
93 — does very bulky poly thinner

18000 green thro 80 all fines in -
6000 Co Nflake 70/30 thro 20
6000 Rosin dissolved in boiling 5% KOH, with rosin add flake then molasses — works good covers green easily, has advantage that dont color green — gels a little sticky when ready to put flake in — Cliff recently perfectly covered by Eye no green streaks, yet under microscope most of pieces can be seen but are only partially covered but the flake is thoroughly mixed with them — I notice that flake has 50% greater bulk than previous batch of flake used. The ~~flake~~ mix after making feels dry but that is probably because of the enormous sticking power of the Rosin hence no rosin transfers to flake + the better covering of the particles of the pigments works 6000 to a kg it would be very practical

I think that the resin doesn't lose its moisture very fast
50 Tempo - Don't dry the - mix

Weight volume material 6.020
Caliper 271
Tempo 59

Mix worked allright for tube

3.61 grm
1.08 3

94 Dup of 93-

Dent dry the mix

Weight volume material 6.070

Calliper 278

Tamps 56-

Overall hole in one cm)

3.61 gram

95 Dup of 93

Oven Dry the mix

Weight of active material 6.045

Crucible 274

Sample 51

3.61 grams

96=

18000 green
6000 McCoffinke 70/30 Line 20.
6000 Rosin soap mixture.

The mix not to be dried on the dry

50 Tamper - 3CB 5" Drop
Weight - active material 5.430
Cell Cipher 277
Tamper 48

3:25 pressure

Mix ok but it worked & tamper shows green tint, there is considerable tendency to sticking on rosin with slow rapid fall mixing with green - It obtained by 1 cell thinner & thinned to give time to mix flake with cell binding

it worked well for tubes green separated but very little from the flake

97 Dup of 96

Mix dried on air

Wet active material 5.505

Calliper 275

Tweezer 50

3.30 green

98 Dup of 96

Mix dried in the air

Wt active material . 5395

Caliper 277

Jumper 48

3.23 grams

99= Dont dry.

18000 grain thro 80 all fine in
6000 Corn 70/30 flake thro 20
6000 Considerably thinner Room
mix than 93 to 98= it works ok
There is no balls - its dry when get
through mixing but it only rolls
the pellicles fine fuse in micro.
with pieces of flake stick to them
think the thicker mix is preferable
I will now try 8000 - Room thin
mix -

50 Tamps 3.66 5" drop

Weight all 6.390
Caliper 277
Tamps 51

worked good and flows well
mix since dry

3.83
3
1149

100 Dup of 99

Dual Dry
Weight aW 6.270
Cal 276
Tamps 54

376 grain

101 Dupraf 99

Dmt Dry

Weight am 6.190

Coal 277

Tampes 53

3.65 green

Dry in the air

102

18000
6000 NaCl 70/30 Thin 20 flake
8000 Thin Room Soap mix –
50 Lamps – 3/6 5" lamp –
Dry in the air –

This mixes ok no GaCl, mix have
green tint under neath and all parts
separate & stick to flake but
~~does~~ particles will be reserved –
This would be very good soap
mix –

Weight air 6.095
Cake 278
Trimps 48

green separated to bottom

3.42 grain

103 Dup of 102 Dryer air

Weight actual material 6.150
Cask 278
Temp 50 -
small crack on end -

3.45 green

104 Drop of 102

Dry in air -

Weight a M 6.125

Cell 277

Incorp. 48

3.459 gram

105 -

Our day

18000 green All thro 200 mesh.
6000 Corn 70/30 thro 20 flake.
8000 Room Thin Bromp.
50 Lump. 3lb 5" dump -

Covers green ok - Mixes well flake
without balling - Mix strong green mash
things no undue Mixers flake 1/2
Coated with paste, nicely well
separate. Think on drying &
handling will segregate.

Weight all 5.745
Cat 277
Jumps 47

in dryed roasted good but green
segregated very little

3.22 green

106 Dupraf 105

air Dry

Wright AM 5.710

Cal 277

Tampin 46

3.22 green

107 - Drop of 105
air dry

Weight AM 5.750
(Cal) 27%
Temps - 4%

3.22 grams

108 - air dried

18000 grain Ilmo 80 fuming
6000 Comfiate yellow - Ilmo 20
8000 after the Chicken Room Scrap

same as wed - 93.

.50 Tamps 3.16 5" drop -
Mass OK - dies slowly starting & easily
easy to drop buffs - This would
be a very practical mix -
No green tint particles under
microscope pretty well covered
a well discriminated Coal -

Weight all 5.850
Coal 277
Tamps 52

air dryed worked good no segregation

3.28 grain

109 Dup of 105

air dry

Weight air 5.920

Crucible 277

T 52

3.32 grams

110 Dup of 108

Wright A.M. 5.795 air dry
Coal 276
Jumps 49

3.30 grass

111 –

18000 green Nero 80 mill fumes in
6000 NiCo 70/30 Nero 20 [illegible]
6000 powder Kroyden Nero 200 –
6000 black Brown Stamp Lake used in 93
~~[illegible]~~ Lake of Sulfate Stamp Lime, green
sticky slight green tint
Drop – no cracks to speak of –
Coloring fine –
50 lumps 3.66 5" drop

Weight all 6.260
Coal 27
Lumps 50

[illegible] wood and [illegible]
mix near dry

3.13 green

112 Dup of 111

Weight cum 6.155
Calc 277
Temps 47

3.110 gram

113 Dup of 111

Weight Achievement 6.220
Cap 278
Jumps 48

3.10.95

Air Dry it

114 —

18000 green thru 80 all green
6000 NICKEL flake only thru 20
6000 Stiff Room Scrap bin 93
(green sticky — but for some reason)
(mix very green [illegible])
Think Robins so sticky that
it knocks flake all in, [illegible]
[illegible] not the green
[illegible] but flake stuck
to it [illegible] well [illegible]
There is [illegible] thing on hanging
also sticky that it knocks
flake up in [illegible]
Possibly 8000 of the thru
Room [illegible] 6 [illegible] —
50 Comp's

Engine [illegible] 6.075
Cal 277
Sunrise 47

air dried green segregated to bottom
3164 green

115 Drop of 114

air dry it

Weight am .6110

Cal 277

Tamps 48

366 green

116 Dup of 114

Air dry wt

Weight relative 7% 6.105

Cal 3%

Jumps — 49 —

366.9 grm

117 =

18000 green thro 80 cell fines in
6000 flake CoM 7/30 thro 20
6000 Molasses boiled down only a little, not sticky - wet green ok but not slightly sticky - Not well covered
Green temper - a little wrinkled
50 Temper 3 lb 5" Drop
The glass mix & molasses not well mixed

Weight Cell 6.310
Cal 278
Temper 52

16 damp dry mil slow mill

3.78 green

118 Dep of 117

Wright AM 6.070
Cal 278
Tramps - 53

3.64 gasten

119 Drop of 17

Weight am - 6.275
Cal 278
Temp 51

3.76 grain

Cant be dried to glycerine

120 –

18000 green lime 80 off fine m
6000 Coniffcale 70/30 lime 20.
about 5000 a good glycerine –
Wet green perfectly no sticky
green mixes easily thoroughly
think it would dry [illegible] give
no trouble. This would serve the
mix green a bad it mixed I think

50 Temp 2 3.66 5" drop –

Weight Oil 6.665
Cff C 272
Temp 44

Fred dropped glycerine squeezed out
& it worked better,

121 Dup of 120

Wright Nature material 6620
Cat 278
Jamp. 42

122 Dep. of 120

Wright all 6,495
Cal 277
Juniper 40

These tubes to soak in 1½% KOH,

123

18000 green thro 40 on 200 -
6000 M.Coflake 70/30 thro 20
6000 Very stiff Molasses

it makes green fairly sticky, covers
perfect no green tinge & micro shows
schwach a green & then the mostly
covered — Noticed that the M.Coflake
is rather dark although the green
thro Hydrogen — probably the thinner
than colour have green along.
These properties of Mol is ok to
work on plotting flake in there is
no balls formed at all — the mix appears
to be gone dry & is ok in every way
Cement was much less Mol as yes,
but if green was thro 30 on 200 think
5000 Mol would be OK — the above
is not too sticky but just right to
stop balls — I cooked on reg mol
stick copy & considerable cur plays
Ord temp 90 Fahr cohesion
mixing 50 temp 3 lb 5" in drop
Wt active Mol. 6.260
Col 278
Temp 71 3.75 green
H2O good flowed well
small crack in one end

124 - Dup of 123
Weight am · 6.185
Cal 277
Tempo 49

3.71 grain

125 - Dup of 123

Wright AM 6.260
Cat 5??
Jumps -51

3.75 green

Temp 90 Fahr

126 - green - thro' 40 on 200 -

18000 NICKEL Flakes. warmer -

6000

6000 Very stiff Nickel weiser

Sticky OR = tinge of green but
Cavity fairly good think Ni flake
is thicker than CaNi 70/30 which is
occasionally upper air cavity so
well - 50 temp 366 5" drop -

Weight CaNi 6.390
Cal 277
Temp 48

3.183 green

127 Eap-f126
Weight 6.420
Cad 277
Stamps 51

3.85 green

128 Dep. of 126

Cot a m 6.440
Cal 278
Temp 49

3.85 gram

Tamp 90 Tacks [illegible] [illegible]

129

18000 green thro 30 ow 200
6000 Coll[illegible] 70/30 thro 20 -
5000 Very stiff [illegible]

Very sticky. Coarse paper at notings
not balls - Bright nice [illegible] working
well in machine with oil dripping
3 lb 5" chop - 50 Tamp -

Weight a m 61220
Cap 278
Tamp 52

[illegible] grass 3185 green

130 Dup a 6 129

Weight 5.980
Fall 278
Temp 51

3.70, green

131 Dup of 129

Weight am 6.050
C.O.C 278
Temp. 49

3.72.9[illegible]

Temp 90 Fahr

132 =

18000 - green thro 30 on 200 -

6000 - black but by Calk [illegible]

4000 Very black [illegible]

fairly sticky green - Covers well but not quite so well as Green Mat, can scarcely see by eye a particle green thro dry + well flow well on the volume reflected drying -

Sol Temp 3.66 5" drop

Weight AM 5.195

Cal 2.78

Temp 47

Small amount in bottle

3.72 green

133 Dup of 132

Weight AIM 57.90
Cat 277
Temp 50
Small crack on [illegible]

3.72 gross

134 Dup of 132

Wright & Mitchell 5.8.55

Cal 5.55

Turner 5.5

3.76 green

135 - 6000 MCO 70/30 Iso 20 -
19000 Iso 40 on 200
5000 - Glycol [illegible]

Lill stiff. Hum the stiff Hole ifs too
stiff - Very Shiny green a OK
but balls tab mark [illegible] flake
wouldn't be [illegible]
Covers OK - No tint or green
seen by eye - flake broken
up fine - [illegible] to be
[illegible] - think the Req
Glycol be OK without [illegible]
50 Temps 3 Cbs 5" drop

Weight all 5.86
Cyl 3.77
T 2.0
[illegible]

3.69 gram

136 - Dup of 135

Weight [illegible]
Coal [illegible]
T [illegible]

3.78 grm.

137 Dup of 135

Wright Coll 5.935
Cat 277
T 48

3.76 grams

138 — Tubes packed with
Reg non 3.66 5" Drop

Weight am 9.070
Cal 277
Temp 51

139 = Dup of 138

Weight 9.140
Cal 279
T 52

140

90 Fahr

18000 green Thro 40 on 204
6000 McCo 7:30 black buck Thro 20
5000 Glucose and big bottle -

Thro 30 Thinner & marker green very
sticky & K-9 Balls are considerably
hard balls easily broke Tamps
& K- flake & fine fine worked
brittle scratched balls in 20 min
& worked thin no - it wants To
be a shade thinner so
Balls formed are breaking without
any appreciable pressure on
twisting. Shaved stuff 1/10th of
water added in mixt also
50 Tamps - 3.26 5" drop

Lot CUK 6.010

Cal 277

Tamps 52

3.78 green

141 Dup of 140

Wright Am 6040
Cal 276
T 53

3178 gross

142 Dup of 140

Wt a M 5.890

Col 277

Turnips 51

Small Quack with [illegible]

3·71 grain

90 Tacks

143=

18000 green then 40 ne 200
6000 MeCo 70/30 then 20 black
5000 Glucose much thinner
than Reguling but still very
thinned down but by 1/4 th of
water.

the little tacks, although green is a
little stickey no backs, works
dry + prettey. Can see some
green but very faint –
Something between this + the
stuff using 6000 CC. ie. the
stuff is on the point of green is
to be got sticky + green takes over
flake breaks up + shows some of
the dirty due to flake being pressed
from original finishing form not
brought up in the right angle
Enough
50 Pumps - 3.46 5" Drop

(a) English 5.980

C.C. 277

Tam 51 3.76 green

144 Dup of 143

Weight 6.030

Cal 278

T 51

3.78 grm

145 Dup of 143

Weight 6.075

Cal 277

Jump 50

3.78 grsm

146 - 5000 Molasses stiff -
18000 green thro 40 on 200
3000 CoNiflake 70/30 thro 20 black
mixed this first with green which was
not very sticky as I should have —
used 6000 Molasses ~~[illegible]~~ stiff instead
of 5000 — 5000 works but is sticky
with thro 30 on 200 but is not
sticky enough with thro 40 on 200,
after mixing the 3000 CoNiflake
which covered fairly well no
green showing roughly & adding
not tie I mixed 3000 flake NICKEL
thro 20 with this covered nice
only mixed it didn't work it
with tongs —
50 samples 3.18 5" dump

Weight 6210
Cal 277
T 50
3.91 green

391
26
26
234
782
101

36
18
18
270
73
9

149 Dup of 146-

Weight 6.160

Cal 277

T 50

Small crack in one end.

319 grain

148 Dup of 146

Weight 6.210

Cal 277

T 51

3.91 grain

149=

14000 thro 20 on 200 -
but there was very little fumes in it
for some reason

5000 stiff mol. was awful
sticky - family wet,

6000 M Co -
Mixed perfect no balls worked
fine - This is prob due to
having so great an excess that
it couldn't get adhesion like it
would of thin - no balls -
This would work fine if could
get it thru air - its dry
Vaflin Covering - needed
to be dried - Covered perfect.
4000 would do for balls
just as well -
I will try 4000 - Stiff Mol.
.5 tamps 3 hr. 5" Drop

Weight 6.220

Cal 278

T 51 391.9 gm

air dryed.

150 Dup of 149

Weight 6.165

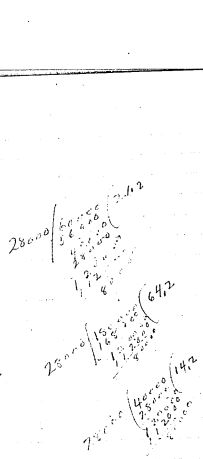
Cal 280

T 50

3190 gram

151 - Dup of 149

Weight	6185
Cal	280
T	50
	319 grain



152 =

18000 grain Ino 30 on 200
4000 Stiff molasses
6000 MCO 70/30 Ino 15 mesh
Not quite enough mol to make it
pretty sticky. wants 5000 for
this size - Covered perfect no
tint. Dry ok
50 Temp in 3 5" Oxp

Weight	5,770
Col	277
J	51

worked good.

3.70 grain

21.2 flake
64.2 grain
14.2 Molasses
99.6

153 Dup of 152

Weight 5.810

Cal 276

T 52

3172 grain

154 Dup of 152

Wright 5.825
Cal 278
Tamayo 51

3.72 grams

155 —

18000 green lbs 30 on 200
5000 off malcanner
6000 McCormick lbs TEN MESH.

green good sticky most of end right.
Big ½ Coke more lucky no balling
perfect in the C. wagon perfectly
Coarse - lots big ½ Coke left in
no dust knows to travel very
Man could easily hand my
for 100 cells Daily there was
it makes quick work
50 Tons per 3.6 hr. 5" drop
it is dry but dont know if
big flake would another pro
EOC in filling —

Weight 6.180
Coal .278
T 50

Large flake does not let
mine flow well. 3.89.

156 Dup of 155

Weight	6,090
Cal	278
J	51

3.183 grain

157 Dup of 155 —

Weight	6050
Cal	278
T –	50

3.83 grm

18000
4000 mol
6000
28000 (180000 / 14000 / 2800 / 1400 / 700 / 350 / 175 / 87.5 / 43.75 / 21.875 / 10.937 / 5.468 (64.3

28000 (140000 / 12000 / 2800 / 1400 / 700 / 350 / 175 / 87.5 / 43.75 / 21.875 / 10.937 (143

28000 (140000 / 12000 / 2800 / 1400 / 700 / 350 / 175 / 87.5 / 43.75 / 21.875 (21.4

28000 (140000 / 12000 / 2800 / 1400 / 700 / 350 / 175 / 87.5 / 43.75 (14.31

24000 (60000 / 4000 / 2400 / 1200 / 600 / 300 / 150 / 75 (7.5

158–

18000 – crazy line 30. on 200 –
4000 Malaiman oxide –
6000 McCoy 7/20 Pure Iron mesh –
1/2 put in mix reworked, the other
1/2 of the flakes put in after 1st half
had been worked to Crazy – the first 1/2
only mixed –

50 Tamps 3.66 5" Drop

Weight 5.650
Cal 278
Tamps 48
Large bridges, out dent let
mix flow.

3.63 grm

159 Dup of 158

Weight 5.815
Col 278
Dampe 49

3.73 gram

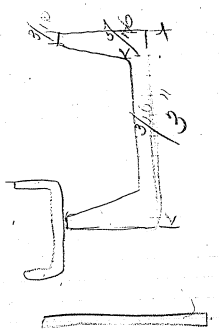
160 Dup of 158

Wright All - 5,200
Cal

277
50

Jumps -

3.79 grain



17 20 1/2 1/3 40

Device to determine amount of flake.

161 –

18000 green lines 30 on 200.
3000 MCo 7030 lines 10 mesh
5000 stiff molasses

Covers perfect no green things –

Dry ish – green has just right sticky a dent bell – cement soft all green sticky

Very little working without handling any pressure breaks the big boxes up when flake put in –

– 50" Compression 3 1.6 5" Drop

10 Eight 5.730

Cal 370

T 50

3.96 green

162 Dup of 161

Weight 5.7[illegible]

Cal [illegible]

J 5.3

3.96 grain

163 Dup of 161-

Wright am- 5.690
Cal 2.78
T 50

3.96 green

164 — Same exactly as 161
Except
18000 green
4000 Mi Co flake

Perfect covered dry —

Weight 5,750

Cal 277

J 58

3.62 gram

165 Dup of 164

Weight 5.818

Col 278

J 49

3.92 gram

166 Dup of 164

Weight 5.755

Cal .275

T 4y

3.82 gram

167 – Same as 161 –
Except
5000 MiCo flake

Covers perforation only

Weight 5000
Cal 298
T 49

3.74 gram

168 Dump of 167

Weight 5.950

Cal 5.74

T 50

3.83 gram

169 Dup of 167

Wright 5.X.35

Cal 275

T 48

3.74 green

170- Same as 161 - Except
7000 flake MnO

Weight
Col
T

3161 grams

171 Dup of 170

Wright 6040

Cal 277

J 67

3.61 gram

172 Dup of 170

Weight [illegible]

Cal [illegible]

T [illegible]

[illegible]

3.61 gram

173 — Same as 161
But 6000 mCo 70/30 flake
thro 20 mesh mixed with green
first then 2000 Nickel
flake thro 20 mixed afterward
without working making
a total flake of 8000
or 69.12% of green —

Weight 6.0 gm
Cal 270°
Temps 52

3.53 grain

174 Dup of 173

Wright
Cal

J 50

3.53 grm

175 Dup of 173

Weight 6.10
Cal 277
T 50

3.154 gram

176 — Ni flake Ilno 15 mesh.

18000 Ilno 30 on 200

3000 Wagner very fluffy thin sticker flake - large bulk - 3 grains filled 3 oz bottle

5000 glucose from big bottle well very little action to thin it say 3 to 5% — very sticky - probably too sticky think it made fine balls - small bulk of total mix

v = 1000 fps 3.66 5" drop

Wagner Cohesion perfect

Weight 5.8 30

Cal 278

7 50

4.03 grain

3

1209

177 Dup. of 176

Weight 5.650

Col 277

T 54

3.90 green

178 Dup of 176.

Weight 5.595

Cal 278

7 48

3.86 grm

179 = Same as 176
but 4000 flake nickel.
Works better Super short think
there are so many fine balls –
3.66 5" Strip
Covers perfect
Weight 5.765
Cal 278
T 53
3.80 green

180 Dup of 179

Weight 5.000
Cal 277
Temp 50
Small crack in one end

3.76 grism

1.51 Dup of 179

Weight 5.680
Cal 278
T 49

3.76 grm

93 Fahr -

182 - Same as 176

Except 5000 grams Nickel.

Little bally

Weight 5.680

Cal 278

7 48

3.64 grssm

183 Dup of 182

Weight 5.600

Cal 278

T 49

3.64 grain

184 Dup of 182

Wright 5.630

Cal 277

T 48

3.64 green

185 – ~~[illegible]~~ Same as 176
Ex cept 6000 nickel flake

Wt 5,700
Cal 278
T 49

3.53 grsm

186 Dup of 185

W 5850
Cal 278
7 49

3.62 green

187 Dup of 185

Wt 5.805

Cal 277

T 5.0

Smooth correction one end

3.62 gram

$$\frac{100000}{7500} \quad \frac{25000}{2000} \quad \frac{7500}{1500} \quad \frac{1500}{300} \quad \frac{300}{60} \quad \frac{60}{12}$$

188 Same as 176 —
Except - 7000 Ni flake

Wt 5.940

Cal 277

Tamper 48 28% Ni flake

Small crack in one end.

3.56 grsen

189 Dup of 188

Weight 5.780
Cal 777
T 48

3.46 grm

190 Dup of 188

Wt 58.35

Cal 278

T. 50

Small crack in one end

3.50 grm

92 Fader

191 –

18000

6000 Very bulky thru Nickel flake
thro 15 mesh

5000 cuff [illegible] –

Not sticky – (10) only a very little,
not near like the glucose fuel cell
big bulky mix no balls perfect
Coloring +

Weight 5.890

Cal 278

T 49

did not flow well

3.165 green

192 Dup of 191

Weight 5.815
Cal 278
T 50

3.65 grsm

193 - Day - 6191

Wt 58.55

Cal 278

T 51.

3.65 grain

5760 against 7650, common with
Mercury —

194 =
25 Black iron Reg Yorkshire
Ralph sent it up — No marking on it
8000 [illegible]
[illegible]
so you could [illegible]
used 4000 after [illegible]
[illegible]
[illegible]
but of course
doesn't count —
3 lb 5" drop — [illegible]
Weight 8,535
Cal 276
T 51
5.76 Iron

195 Duplicate of 194
Weight 8.555
Cal 278 5.76 iron
Temp 50
did not flow good

8.255

276

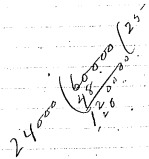
52 5.29 g raw

8.460

277 5.42 g roasted

51

did not flow good



19.8

18000 grain thro 30 on 200
6000 dark Cobalt Nickel 70/30 flake 15 mesh
5000 Stiff Malvern

To be given 100 Tamps 3 lb 5" drop

Wt 6,100
Cal 278
T 101

20% flake

3.78 green

199 Dup of 197

W 5.960
Cal 278
T 99

3.69 [illegible]

200 Dup of 197

Wt 5.970

Cal 277

T 100

3169 gram

201 –

18000 thro 30 on 200
6000 Nickel flake fluffy thin [illegible]
5000 – Glucose

Sticky oak – no balls –
Works fine – no drying necessary
Thin Ni flake breaks up more than that previously used – as Warner putting
20 to 40 layers on more zinc –

100 Tamps. 3 lb 5" drop

Weight 5.445

Cal 277

T 101

3.136 gram

202 Dup of 201.

Wt 5.310

Col 278

T 102

Small crack in one end

5.29 grain

203 Dup of 201

Wt 5.400

Col 277

J — 101

329 grams

204

18000 Thro 30 on 200
6000 Nickel flake thins Sticky
trouble – pilly from [illegible] much [illegible]
5000 Glucose –
Green sticky – mixed thru different
put in about 1/5 of flake –
thoroughly mixed at – no balls
flake broke up very much
in micro see green many particles
Covered with fine broken flake
1/5 to 1/4 size – (particles on)
particles on partly covered –
No balls – then put in the
other 4/5 of flake – Covered
dry no balls coating
50 Jumps 3 lb 5" Drop

Wt 5.720

Cal 277

T 56

3.54 grams

205 Dup of 204

Wt 5.550

Cal 278

T 50

3.44 gram

206 Dup of 204

Wt 5.380

Cal 277

T 54

3.32 gram

207 =

18000 gpm. Ilmo 30 on 200
6000 Ni Co flakes 70/30 15 mesh dark fine
6000 Conc KOH,

wet it good not sticking — no balls —
pebbly lumps to 1/2 diam — Covers perfectly
flakes very bulky —
50 Tempo 3 lb 5" dump

Wt 7,340

Cal 279

T 51.

when put out to dry it got red inside
a drying packed finery

208 Dup of 207

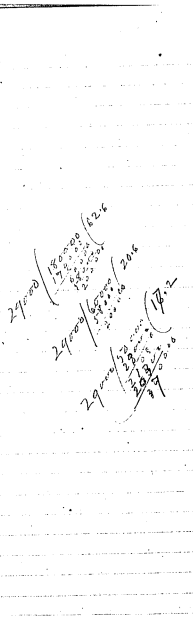
Wt 7,210

Cal 278

T 48

209 · Dup of 207

Wt 7.010
Col .279
T 51



80 Fahr

210

18000 Ham 30 on 200

6000 McCo Wp/ Flake Very fluffy Ham [illegible]

5000 Phoenix Ahnde [illegible]

6.4 bottle

Green Sticky - no balls providing Dry or Ok

Hey working in morning - Crown perfect

To have 50 Dri Shotgun

3 lbs 5" Drop

Weight 6.470

Col 278

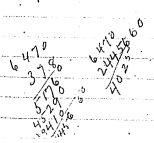
T 57 4.01 grain

Green 62.16

20.16 flake

17.12 flour

100.4



211 Dup. 6210

50 Double-Jumps

Wt 6.315

Col 277

T 52

Small occasional

3.91 grams

212 Dup of 210 —

Wt 6.330
Cal 278
T 54
3.91 grind

213

18000 Ilmo 30 on 200
6000 MnCo 70/30 bulky, dark, fraible
5000 glucose same as 210,

To 62 run in 33% KOH,
50 Jamp 2 — 3 lb 5" drop

Wt 5,985

Col 278

T 52

3.71 grm

214 Dup of 213

W.f 5.880

Cal 278

T 49

3.64 grain

215 Dupsf 213

Wt 5.825

Cal 278

T 50

3.64 grams

216=

18000 Thro 3r on 200
6000 NICKEL Plate bulb, pinch, then
5000 Phenol Sam no 210-
50 Lamps 3½ LB Weight. 5" Drop

Wt 6.170

Cal 278

J 53

3.85 gram

217 Dup of 216

Wt 6.000

Cal 278

J 51

3.72 grm

218. Dupref 216

Wt 5.825

Cal 277

Jumps 49

Small crack [illegible]

3.61 grain

219

18000 Thro 30 on 200
6000 bulky franklin nickel flake
5000 glucose same as 210.

green & thick into sticky - it balls
some of less sticky but ok & wouldn't
balling hence franklin flake wouldn't
break up as much

50 Tamps 4 lbs weight.

Wt 6.170

Cal 277

J 49

3.82 grm

220 Dup of 219

Wf 6.230
Cal 277
J 51

3.86 q:Zew

221 Dup of 219

Wt 6.000

Cal 278

J 44

Small cracked end

3.72 grew

2222 Reflect cups
200 almosbllacs
18000 Iron without Mercury
6000 Corn flake
Sufficient glucose to shake it
Dry at that weight out 4 or 5 grms

223 Dup of 222

224 Dup of 222

22,5

18000 Green
6000 Coke - [illegible]
5000 Glencoe hills, Illinois, Thornburg bottle

Dry this mix on asbestos on hot plate for 1/2 hour before use

50 lamps 3 lb 5" Drop

Wt 5,125

Cal .279

T 56

226 Dup of 225

Wt	5.070
Cal	.281
T	53

227 Dupal 225

Wt 5.130

Col 279

T 51

228

18000 Ilm 30 on 200,
6000 Bucky McCo flake
5000 graphite.

Screw not sticking but just right.
This mix I worked the flake longer so
finely granulated should be organic it
got slippery slippery so I mixed more
got like bulk than 225-4 flowed more
like a dry powder —
50 Tramps 3 lb 5" Drop

Wt 5.570

Cal .277

T 49

Small crack on one end

229 – Dup of 228

Wt 5.505

Cal .276

T .53

Small crack on one end

230 Dup of 228

Lot 5.325

Col .277

T 50

Small crack on one end

231

18000 [illegible] 30 on 2000
6000 Calli flake-bubbly blade
5000 Glycerin –
50 lumps, 3" to 5" diam – no bubbles – dry, powdery –
Ruew in 10% KOH,
+ 10% Carbonate Potash.

LOI 5.710

Col .277

T 54

232 Dup. of 231

Wt — 5.480

Cal .277

T 52

Small crack on one end.

233 Dup of 231

Wt	5.485
CaC	.276
T	53

234.

18000 green Ilm 30 on 200

6000 McCo of Coke – bulky block

5000 fluxmass

Underneath slag –

50 T 3 C6 dump 5" mole

This cell to be in nickel cell + run COLD. not to go on hot diesel at all –

Run 150 runs Cold then put on hot. Sat 8th 1.05 had 100 hot runs –

Wt 5,765

Cal 277

T. 54

235 Dup of 234

Wt 5.525

Cal .276

T 5.1

236 Dup of 234

Wt 5.530

Col .276

T 51

237

14000 green Thio 30 on 200 –
6000 Cobalt nickel flake 70/80 bifeby
5000 glucose – 'Covers perfectly
Green sticky [illegible] No [illegible]
366 5" Prop 50 Torque –

Run Reg in little metallic Cell
Then Halland is to take it for
testing Economy, capacity, etc
it is not complete of a Dolce
experiment more nearly what was
were in use in practice.

Wt 5.565

Col .277

T 53

238 Dup of 237

Lof 5.257

Col .277

T 52

back on one end

239 Dup of 237

Wt 5.270

Cal .277

T 51

Cantony of powders of CoTo Ni in flake
to 0 Ko Wanted made of 5 days for
one oz =

240

18000 green thro 30 on 200
6000 Corn flake - very friable + poor so much
times had to screen out dust thro 80 mesh, so the
thro 15 on 80 - under 15 is dust - dirty -
with very fine black specks, looks like the
flakes like lead a very much crushed,
it powders extremely easy with the fingers
I dont think it will give good results
probably breaking up in loading
5000 Jr Increase little thinner than in
big battle - Corrosion perfect dry + okta work
100 Tamps 3 lb 5" Drop
except had trouble with balls and I dare not work
long on account brittle flakes - green sticky -
Weight 6.088

Cal 278

T 95 3.77 green

241 Dup of 240

Weight 6.032

Cal 277

Temp 105

small crack one end

3.77 gram

242 Dup of 240

Weight 5.943
Cal 278
Tamper 105

377 gm

243.

18000 green thro 30 on 200.
6000 Mica flake same as wood — 2.40
5000 Glucose "

green smoky oil

Works lake 240 — Covers perfect

50 Double Jumps - 3.66 5" Drop

Weight 6.303

Cal 277

T 54 3.90 green

244 Dup of 243

Wt 6.115

CaC 278

T 51 3.49 grm

245 Dup of 243

Wt 6.053

Cal 279

T 51 3.77 gram

* Notice with this flake the bulk of the flake which generally fills the bottle nearly full is only 1/2 full

246 –

* 18000 grams
6000 Nilo flake Mkwanda 240
5000 glucose "

Covers perfect – off –

100 Jamps 4 pound weight 5" drop

LVt 6.568

Cal 278

T 94 4.07 gram

247 Dupof 246

Wt 0.210

Col 277

T 96 3.85 qresw

248 Dup of 246.

Wt 6.191

Cal 277

T 97 3.85 grm

249

18000 - grain Ilmo 30 on 200
6000 NaCl flake like 240
6000 33% KOH. mixes ok -
ours appearably pure cat, grain not
sticky - mix little charge may not
flow well in a roll-feed -
100 Tamps - 3 LB WT, 5" drop
Could probably use 5000 33% instead 6000.

LOF 7.483

Cal 277

T 98 4.48 grain

250 Dupl of 249

Wt 7.515

Cal 277

T 99 4.500 grsm

251 Dup of 249

Wt 7.568

Cal 277.

T 98 4.54 gram

Thumb flake — too brittle & thin

warm on 2 & 3
time thumb thumb
water

252 -

18000 Ilmo 30 on 200

6000 - blackish CoMi 60/40 ? bad key -

5000 glucose -

Green not sticky - dont cover well. lot less particles - lot of this kind of glucose 5000 is not enough to prevent separation will use 6000 on the next one

50 Double Tamps -

Weight 7.130

Cal 279

T 60

253-Dup of 252

Wt 6.765

Cal 280

T 58

254 Dup of 252

Wt 6.740

Cal 278

T 54

Small crack one side

Thimbleberries to Brille + Chin

Hooker to Chin
Brille

255 -

18000 Ilmo 30 on 200
6000 black bulky 60 5/40 McCoff
6000 Glucoxi — made stiffer but it
didn't get stiff enough it wasn't very
sticky & lot of green pailiglucoxi could
be seen in mix - I should say it
was not well covered

50 Double Tamps -

Lot 6.945

Cal 278

T 54

256 Dup of 255

Wt 6.975

Cal 278

T 52

257 Dup of 255

Wt 6.800

Cal 277

J 50

Small cracks and

Thick flake too brittle & thin —
flake too thin

258 —

1800 green thin 30' on 200
6000 - bulky 60/40 Coni - clank -
5000 - Glucose - thicker than 235 -
50 Double Tailings - 366 5" Drop —.

Lot 7,250

Coal 278

T 56

Small crack on cord

259 Dup of 258

Wt 7.185

Cal .279

T. 55

260 Dup of 258

Wt 7.080

Cal 279

T 52

The flake in the very thin frame NCO 60×40

261.-

18000. all through 50 mesh fine in -
6000 CON 60×40 thro 15 mesh -
6000 Glucose pretty stiff -

50 Double tamps - Speedy as to see that the lap in the tubes are bitted up - That the ends are closed tight on the mix and that the jois do not segregate the free flake from the mix -

I squeezed the mix some to make the flake adhere there are a considerable number of free grain on the 6000 Glucose do not make that grade of fine grain sticky enough - The flake is quite brittle a gross to fine -

Wt 6.875

Cal 177

T 56

small crack on side

262 Dupof 261.

Wt 6800
Coll 277
J 53

263 Dup of 261

Wt 6.740

CaC 275

T 50

264-

18000 all thro 80 fines + off
6000 of same Co 14 60 + 40 flake as on 261
7000 same glucose as on 261

50 Double Lamps with same precautions as to tube lap - hand ends + pouring of mix

Squeegee mix same - the bitter coarser than 261
Cells scarcely see any gazed - with this
bucky flake in glucose -
What is really needed is tough larger + less bucky flake

Wt 6.810

Cal 177

T 51

Small crack in one end

265 Dup of 264

lot 6.943

Col = 08

T 52

Reg. Cancel one end

266 Dup of 264

Wt 1,900

Cal 277

T 50

Small crack in both ends

267

18000 green thro 100 + all fines
6000 same flake as 261 -
8000 fluffy same as 261

.50 Double Tamps with same procedure as to jarring mix - ends tight on mix + lap used on Tubes tight at edges

I pinched + worked mix same as 621 26
flake breaks up bad - no green particles seen

Wt. 7.170

Col 277

T 51

Small wash in oil [illegible]

268 Dup of 267

Wt 7.160

Col 277

T 52

Small crack [illegible]

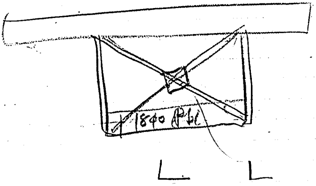
269. Dup of 267

Wt 7,050

Cal 277

T 51

270-



5%

.125
7
.875

100 ton 500 lbs - 250
7
1750

100) 300 000 (3000
300

4) 3000
750
1500

14
20
28
35
315 (350
315
35 (11

.250

12

3 | 800
1266
1066
192
3132
9594
1066
204672

250
1,752.0
14 | 350.0
35 lbs

3 grms
1 mlg 2 lbs
14
7 km

22,420
1200
16000
19600
1000

35
20
35
1½
3
20
50 lbs
100 km

Notebook, N-05-08-30

Aug 30 1905

269½

18000 grew thro 30 all-fires in.

5000 Glucose with some Sick KOH dissolved in it

6000 60×40- 0004 The wet flake, thro 15 mesh

50 Double Tamps- circle Tight on mix bees

inside, 3 lb 5" Drop- New tubes Cups in

end

Wt

Cal

J

270 Dup of 269 -
Wrightam
CaC
Tampa -

271 - Dup of 269

WT

Col

J

18000
5000
6000 Green 1206
29 000 [illegible]
[illegible]
[illegible]
[illegible]

29 000 [illegible] 161
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

29 000 [illegible] 62
[illegible]
[illegible]
[illegible]
[illegible]

272

18000 green Thro 30 all fines in –
5000 yellowish
6000 60440 150 cmp ~~Comp flaw~~ flake on 150
50 Strobe Tinnips – 3 lb 5" strip –
Ends closed and on edge Thin – see that Gatts
Ends Tube to refers use calliper same
Completely covered Tubes –
Burns inside – Cups in end flat cups in end

flake 00004 –

Wt 6695

Cal 274

J 51 Don't Count perfect
Can see green [illegible]

Burns Inside

green 620
flake 2016
164
99.0

273 Dupo 272

Lot 6.805

Col 274

J 53

274 Dup of 272

Wt 6.565

Cal 274

J 49

Crack one end

Made ✓ O/K

275

18000 green thro 30 acc fumes in

5000 glucose

60000 160440 MgO ~~0004 Theory~~ 150 mmp on 150 mm. 15 mm sp on sp

50 Double Crimps 3.66 5" Drop -

Ends well ac on crimp

BUTTS Outside Tubes made

@ carefully + packed at Scamp -

Round Cup Ends used -

Wt 6.215

Cal 273 flake 0004 -

J. 49

62 green

16.4 glucose

20.6 flake

276 Dup of 275

Wt 6.180

Cal 273

J 49

Crack one end

277 Dup of 275

Wt 6.070

Cal 273

J 47

Small crack one end

Formation flake very tough – consider a GE fuse due to fact side holes only allow reduced working part of flake bottom, this is due to bad Hydrogen diffusion which small fix – bottom working like foot hanger or oil spot end where it gets exposed put a boat with 6mm flake in – bottom rubbing due to water decomposing or black forming of ~~[illegible]~~ at exit end –

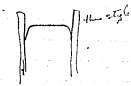
826 / 2060 / 249

* This flake is thicker than $\frac{1}{10000}$ ie 00012 which is 50% 6 times thicker than used previously to 2000 2092 and 3 times thicker than 2647 at Cardiff

· 278

18000 green thro 30 fuses all in –
5000 glucose
6000 flake Cu only thro 15 week on 50

Made by Oakeson ~~[illegible]~~
Theory thickness – 00012 –
50 Double Jumper 3.1 lbs 5" Drop
Ends cleaned wire in mix – see tubes
Cap lipsgrame before use – burs outside
used ~~[illegible]~~ Cup at Ends on Thin Rim



CuO f 6.220

CaC 273

· 275

Zn 48

62 green
16.4 glucose
20.6 flake

* The flake is too thick it doesn't cover properly see Lab. of press green phenol GE about nearly twice as ~~thick~~ 0006 ie so stiff it doesn't bend around particles,

1st Run 887 872 930 which is higher than 1st run just under 22 – Theory 1 production doesn't pain

279 Dup of 275

Wt 6.330

Col 278

J 51

Tube cracked one end

280 Dup of 278

Wt 6.275

Cal 273

T 48

281 This group to be
the same as 278 Except
the Grains are to be inside -

Wt 6.800 flake Illno 15 on 100,

Col 274

J 53

62 green
16.4 olive
20.6 flake

282 Dup of 281

Wt 6.735

Cal 274

J 53

Crack one end

283 - Dup of 281 -

Wt 6.710

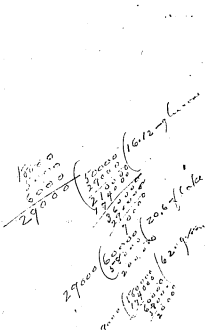
Col 274

J 51

Crack one end

June 18/04

Replaced with Dropped Shot in Seam
[illegible]
Cracked with cutter + 4" down tube



Made OK ✓

Tubes made a magically + rolled of seam

284 =

18000 grain Thro 30 all fine in

5000 glucose — 150 amp on drum

6000 / 6040 ~~[illegible]~~ flowy 15 mach on 50

Dry Prim mix before mix add Lactate

50 Amido Ferrous 3 / 6 5" Trap —

Dce Ends c Cover & add Binder mix — Burs outside

Round Caps on Ends

Wt 5.110

Cal 273

T. 47

Flake 0.0004 —

See poor gun cotn — Evidently drying mix is bad, either that there no air flowing or dont get enough grain in or to Grille + Segregates,

285 Dup of 254

Wt 5.110

CaC 273

J 46

Cracking seal

286 - Dup of 284 -

Wt 5.200

Cal 274

J 48

5031 – 61
5031
301 86
30089

180000
7200
10000
29200) 180000 (61
175800
4800
29

15
29200) 732000 (246
584400
136800
117200

6.5600
176
3520
2816
176
4.16
15

287 – Thus grain-measure
284 Excepts burs inside

Wt 6.880. flake sho 15 on 100,
Cal 274 Not [illegible]
J 54
Crack one end

288 Dupof 287

Wt 6.860

Col 274

T 52

crack one end

289 Dup of 287

Wt 6.670

Col 274

T 52

290

18000 greenlbro 30 all fine mesh
5000 glucose
6000 Cobalt flake - theory 15 mesh.
50 Double Tanings - 1 lb 9" drop
See Ends close tight in mix
Burrs inside

Wt

Col

J

291 Dup of 290

Wt

Col

T

292 Dup of 290

Wt

Col

T

293 - Thus [illegible]
290 Except Guns outside

Lot
Col
T

294 Dup. 6293

Wt

Col

T

295 Dup of 293

Wt

Cal

T

296 — Index made carefully & read down at seam

18000 [illegible] thru 30 [illegible]

5000 [illegible]

6000 Cobalt flake [illegible]

50 Double Fringes 3 & 5" Drop —

~~[illegible]~~ [illegible]

Burs outside —

Wt

Col

T.

297-
Dup of 296

Wt
Col
T

298 Dup of 296

Wt

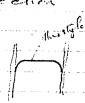
Cal

T

Tubes made carefully ✓ Made
welded & neat at joints

299 18000 Green Thro 30 all fine in
5000 Yellow
6000 60440 McCo 180 cup on Drum on 50
flake in the cup 0004 15 minutes

Cup on ends Tubes
50 Sections 4 Tumps to section
3L6 5" Drop
See ends of Cups in Helix
used ~~flat~~ Cup on ends —



Wf 6.815

Col 274 flake features not flow
on Yellow. its good

T 50 flake somewhat tough +
fairly bright —

1st Run 801 770 820 — These good
its the Tumps ⊕ that did it —

300 Dup 299

Wt 6.720

Col 273

T 54

Cracked both ends

301 Dup of 299

Wt 6.600

Cal 273

T 49

302:

18000 Green Turo 30 [illegible] in
5000 [illegible] —
7700 Cobalt flake Theory — 15 min
50 Double Tamps 3CB 5" Drop
see Ends cloud and mix —
Burn outside —

Wt

Cal

T

303 Dup-6302

Wt

Cal

T

304 Dup of 302

Wf

Coal

T

18000
5000
7700
30700

30700 | 18000000 (58.6
15300000
2850000
2400000
1950000
1500000

30700 | 77000 (25.8
61400
15600
15300
25000

30700 | 50000 (16.2
30700
19300
18400
9000

844 | 5860 (69.49
5064
7960
7596
3640
3

Made ✓

305

18000 grain Thro 30 funnels all in
5000 glucose
7700 HiCo 60440 150 angus Bonnie - in 100
~~[illegible]~~ 15" HL
50 Double Tamps - 3lb 5" Drop
Burs outside -
See Ends C Cover [illegible] -
Cupon
Round Cups on end

Wt 6.260

Col 273

T 53 flake 00004

58.6 grain
25.8 flake
16.2 glucose -
100.6

306 Dup of 305

Wt 6.140

Col 273

T 47

Crack one end

307 Dup of 305

Wt 6.400

Cal .273

T 51

Crack out end

Made

308 = Tube made carefully & rolled down at joint

18000 green thru 30 all fuses in
5000 glue
6000 60440 - 0004 thick 150 amp
thru 15 on 50 -
on drum - Copper ends of tube -
50 Double lamps 3.66 5" Drop
Several turns of wire around tube
in 3 places - Burns outside -
(Round Copper Ends)

Uel 6.240

Cal 273

T .51

flake 00304

Small cracks and

309 Dupo 6 308

Wt 6.315

Cal 273

T 51

340 - Dup of 308

Vol 6.290

Cal 273

T .51

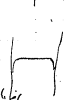
Small crack one end

811 —

18000 grsm Ilmo 30 all fines in
6000 Glucose

7000 NiCo 60/40 flake 00004
Ilmo 15 on 100 mesh —

Flat cup on Cuno Cribs, good drop on tubes
Carefully made etc.
50 Double lamps —



only covered fair

LOF 6,750 grsm mix not very ok
Cal 272
T 55

391. Mott

18/..
Cleaned & weight fast on steam 0.15.

Mr Stickey had to clean fingers
filling such tubes

312 Dup of 311

Lot 6765

C&C 273

T 53

[illegible] 14 [illegible]
[illegible] & single [illegible] in steam [illegible]
[illegible] straight & [illegible] [illegible]
[illegible] mix came out very little

3B Dep-6311

Lot 6765

Ca C 273

T 52

Jan 18/06
Referred Twinings for [illegible] Stamp [illegible] not
[illegible] claim [illegible]

314 -

18000 Green Illo 30 all fine mix
7000 glucose
7000 Flake Nile 60/40 Illo 15 on 100 -

50 Double Tampon good tube, lap prepared
flat Compressed end -

Burns outside
00004 flake -

WT 6.980

Not perfectly Conserved
Co C 273 appearance only fairly sticky

T 50

Sticky hard to clean plunger
Drive kin filling each tube

315 Dup of 314

WT 6,950

CaC 273

T 51

316—Dup 6814

lot 6.795

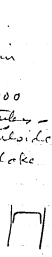
Cal 273

T 49

317 –

18000 Green Ilmo 30 fine oil in
8000 Opaque
7000 Nile 60/40 Ilmo 15 on 100
50 Double Tamps – new good tubes –
Flat Cup on end – Burs outside.
00004 flake

Wt 7,060



Cal 275

T 51

Hickey
tool to clean plunger once while
packing tube

318 Dup 317

WT 7.070

CaC 274

T 50

319 Dup 317

Wt 7.040

Cal 274

T 49

320 —

18000 g Ilmo 30 all fine in
10000 Glucose
7000 Ca 14 60/40 Ilmo 15 on 100.
New good tubes Caps & cuts —
50 Double Tamps 00004 flake
Rather leaky but still pulmonary spots
Lungs out - Covered OK —
10 f 6.8 20 ts too leaky for injection
8000 Glucose would work ?
CaCl 273 7000 OK —
Burns outside
50

Mix did not clear well
Juice when packed in tube

321 Dup of 320

Lot 6.910

CaC 273

T 50

322 Dupof 320

Wt 6.870
Cal 273
T 50

18000 Grand Rivers 30 acc fences on
6000 Spruce Co
7000 00012 flakes Thus as the the ak
Stiff Cabinet flakes used on 2/8
Its 1st run Lumber so good 2 bright
again but use 6000 Spruce
and 7000 flakes –
New Case fitting made Turkey, capped ends
50 Oneida Stamps

Wt 6.580 Burs outside
Cal 273
T 49

3.81

Only coarse particles
seed old green but powder
after pulverizing
better Cavendish than with
Summer flakes –

Max worked all night

324 Dup of 323
Wt 6,800
Cal 273
T 51

325 Dup of 323

Lit 6.870
Cal 273
T 58

326

Brought 328 but
50 sections 4 Tamps to Section.

Wt 7260 Cracked
Cat 274
T 54 Thrown away

4 Tamps to Each
Section —
Burs outside

50 Sections 17

Only Covers partially
Ice Cats green

x worked all right.

327. Dup of 326

Wt 6.860
Col 274
T 48

128 Dup of 326

Cut 6.800

Cal 274

T 48

329

18000 grain

5000 Rosin soap - (juices) at amount

6000 thick flake cocoa - (ground at most)

finely sticky - didn't ball & worked at a long time hard with fingers to break down segregation until finally looked less grainy - tried it was generally mixed or rather distributed. Thus gave appearance of better covering - The flake apparently broke up more but not enough to stice large - There will be no segregation - Mix flavors - not dry - flake thoroughly all coated

Burs inside -

50 Double Tamps

Wt	6.250
Cal	274
T	50

Capped Ends
new tubes
good top

Soaked alcohol 30 hours
speedy by must take out them
in 1½% NOH for 5 minutes

330 — Dup 329

Wt 6.490

Cal 275

T 48

331 Dup 329

Wt 6.560

Cal 275

T 50

18000 Green Iho 30 all fines in
5000 Glucose same a have been mixing
for long time but Thicker as I put
the dish on sand bath + made it
thicker it made green very sticky
6000 Thick Ni Co 70/30 flake
the thick kind that dont bend
around green - after putting in
flake I used no pressure to distribute
flake + what is unusual I kept
mixing for several minutes so the
green aggregates held together by
binder got smaller & smaller - the
force used was so light it doesnt
break up the tough flake appearance
but it got darker + darker as the
green got more broken up until
finally only green tint I then 396
used heavy thumb pressure to
press all together to force the
green together so it was finally
pretty well covered but has
green tint - dont think has enough
binder or aggregation - New Tubed Capped,
Burrs inside, new tube Capped Ends.
50 Double Tamps Wt 6.395 Cal 274 T47

600012

333 Dup of 332

Wet 6.375

Cal 274

T 50

334 Dup of 332

Wt 6.440

Col 274

T 50

Thus 15 on 50

18000 Green Thus 30 all fine on
6000 Dito Yellow 00001 thick flake
5000 almost solid glucose when put
green in made paste stiff pretty & I thought
it never could be worked but by a long time
really got it sticky like this — put in flake
it balled terribly, had to work it twist &
several seconds mostly green balls left
in screw — put them in cloth & finger & rolled
till got balls flake put them, a thing that
I didn't want thus & worked until balls
up well & fell out mix bone dry — then
commenced work proving with fingers
until it was very well covered no
green lumps flake not flake as
much — cloth in when & worked
but I believe if necessary this
would be worked — the block & 6
mix w/2 the usual mix —

Burs inside —

50 Rounds T

New Tubes
Capped Ends

Wt	6.065
Col	275
7	49

336 – Dup 335

Vot 5.915
Cal. 274
T 48

337 Days 335

Wt	6.065
Cal	2.74
T	51

335

At no time did water show any color & the reasonable to expect that glucose not decomposed — 1200

Product formed —

of the 38 hours soaking nine hours was cold soak. Calcined on beaker on one inch board on hot plate — just like mary —

Fred Ott is putting up 338 & 341 gramp humidity —

18000
5000 gluc.
6000
29000 (60000 / 20 = 3000
54000
2000
2000

29000 (150000 / 17 = 8800
37000
2000
7000

29000 (150000 / 17 = 8800
174000
36000

338

18000 green Thro 30 cc CC fumes in —
5000 glucose CP from powder — not very stiff — 6000 of thick Co flake 000012 17 gluc
Warmed & with green & glucose —
Didn't ball at all — strong green but but pretty loose disappointed.
50 Cookie Temper 6 hrs inside —
To be soaked in water with only 4 or 5 drops of 20% KOH. To show alkaline on litmus paper & put on an inch block of wood on water after it has soaked 24 hours cold — save the 1st water for Edison to look
Keep on board one hour 26 hours

put in Monday midnight
In H2O few drops KOH, change
H2O 3 or 4 times till smelly fresh
and shows no glucose taken out 11:00 am Wednesday
36 hours soak —
361 gms

Ut 5810

62 green —
20 flake —
17 glucose

Cal 273

T 52

6 hrs inside —

dried off clean
no gramp —

Dries flowed well

339 Dup of 338

Wt 5.780

Cal 273

T 50

340 Dup of 338

Wf 5875
Cal 273
T 50

341 – Same cooking as manipulation on this glycerine as 338 –

both were on same breaker when cooking out glycerine

341 –

15000 Olive Oil 30 all fines in
6000 Cocoa Cake coarse 12
5000 Cocoanut 33% – clean –
but dont have sticky properties
poor cocoa – lots grease – it
will segregate badly –
to be cooked 24 hrs Cold
then 24 hours on wick board
on hot plate –
50 Double Tins – New Tubes Caps
Burns outside

Lot 6.670 Soaked so as not to compose glycerine

Cal 273 Same as 338
Wholesoap –

T 53

Segregated badly

342 Dup of 341

WT 6.230

Cal 273

T 53

The tube is 1/8 shorter than the others.

343 Dup. of 341
LOF 6,090
Col 273
T 51

Note =

By our regular careful grinding with all sizes - The average weight of the sizes are as follows

Thro 30 on 50	50%	684	grammes
" 50 on 100	32%	442	"
" 100 on 150	9%	125	"
" 150 on 200	1%	16	"
" 200 & finer	7.5%	103	"
Total —		1370	

18 | 123 | 6.7
98
25
13
12

18 | 1370 | 76
126
11

18 | 684 | 38
54
144
144

38
18
57

18000
9000
6000
3000

33000

27000

New method of mixing

18000 Green thro 200 mesh & finer
9000 Sugar with 33% KOH,
6000 Nickel flake thick + bright, thro
100 mesh & finer —

thickness of green OK - flake at night seems cover ok - coming in OK condition back up there is some balls not yet under micro flake about half covered it but it seems to be pretty fairly distributed thro + broken up into separate particles — The only trouble will be balls due to fine coagulation however by decreasing there will not be many - perhaps by increasing the fine edge may help to be necessary — The flake seems to be rather tough & doesn't want to bend at all

9000 Sugar OK but think 9500 better —

545 green
18 flake —
27 ~~Sugar~~ KOH

2nd Lot -

18000 Green thru 100 on 200
Most was on 150 as that is the natural limit
the way we crush it -

7000 - Sugar with 33% KOH.

6000 flake Nickel thru 80 on 100 -
thick flake - Therefore had to get 8000
sugar it was hard to get it sticky
+ it dont cover well & gets dry in
wiping on it segregates some -
The slags when mixed in big batches
I feel segregates a great amount
Must have extra sugar KOH to
allow for drying while mixing
+ subsequent manipulation -
Has very green tint, but few balls

Should have 8000 or 8500
sugar

18000. green Thro 50 on 100 –
7000 Sugar i 33% KOH
6000 Nickel flake Thro 30 on 50 –
Thick bright flake.
Very sticky just about right, scarcely any
of any binder – dont dry in mixing
Squeezed it too much approx 60
Cooked OK dry Eye Not well covered
tender Mucral but well mixed
Notice most of flake is double
& tripple binder play gets slack
in mixing – Thro is 6 h.l –

18000 green thio 30 on 50
5000 sugar + KOH.
6000 flake thio 15 on 30 - Nickel
thick bright flake —
green very very sticky 4500 worked do
left with 5000 it covered good
Even under microscope
it did not dry —

* Iritis thro 30 on 50 that the flake [illegible] up amorphous
It is probable that 30 wtro beg
probably thro 40 on 100 —
+ thro 100 all fuses in — mix separately
+ use thro 15 flake on front &
thro 40 [illegible] nickel flake on bottom
or something like that,

thro 30 [illegible] in row on paper
shows that 12 pieces end on 3 inches
1/4 inch —

Soaked 80.5 hours after which
8 hours soaked Cold at 1.5
bal time on inch board
on heater = changed water
3 times —

18000
6000

Wt - 6.230
Cal 273
344 T 51

18000 Green Special *
6000 Thick Nickel flake about
same size as the 00012 Thick Bright
Cobalt flake used in 341-2+3
the flake is very bright + good —

In this mix there is 50% of a mix made of
18000 Green thro 30 on 50 6000 Ni flake
5000 Dupon mixed with 33% KOH. See new
method of mixing first 4 pages before this
page.

32% of a mix thro 50 on 100 —
described in the 4 pages back of this

9% of mix thro 100 on 200 —

8 1/2% of mix all thro 200 —

The object of mixing this way is
to keep the fuses from sticking
to the bag pieces
Burs made — Strips plated + annealed
but tube was not annealed again
at high temp as usual
20 Double Temples 5" 3 lbs —
Bottom ends rings over tubes —

345 - Dupr of 344
Wf 6170
Cal 273
T 49

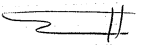
346 Dup of 344

Wt 6 169

Cal 273

T 50 Big crack one end
at the Cap on top of Cup

after 50 run hot rubbers all yellow
Coated



Soaked 12 hours Cold
on hot same as 344
72-hours -

347 This is a duplicate of
344 - Except the mix slaped in
bottles No 1 2 344 10 hours before
mixing to form this mix 9 times
hand tumbled to get green colors
binder + dry powder +
was 2 1/4 grams dry 6
No 1 + blend No 2 to make up -

after 50 hot runs
Rubber covered
yellow Canal,

Wt 6.290

Cal 273

T 49

cracked one end

348 Dup 347

WT 6.233

Cal 273

T 50

349 Dup of 347

Lot 6,350
Cal 273
T 28

Notebook, N-06-02-19

Feby 19 1906 JAE

New series of experiments with Tubes, provided with rings of Cobalt glass made by Copper dissolved Electrolytic & dissolving out the Copper by KCy = result of long and exhaustive experiments. This Cobalt glass is approximately one/ten thousandth of inch thick as determined from the amperes — its very perfect as compared with the flake we have previously used.

The sheets were cut in strips 40/1000 wide & copper dissolved out by cyanide after testing a general sample of strips to see that all copper was removed. The strips were put into a crock in water having a little KCy left over from washing out the dissolving cyanide. This keeps the flake from oxidizing. The revolving springs in the crock agitated the water & separated the layers very well. The strips were then washed by 4 changes of water & then put in Ethyl alcohol (to remove the water & they will not drain off). The stuff (wet) strips were then rinsed in alcohol & then run in hydrogen to clean it & Cracked off its surface.

John C. H. not having finished the little machine for chopping the strips up into flake of the proper size I had to chop by hand or cut from time to time searching out that which was of proper size.

Used in 15 weeks work. The flake is not nearly so crinkled up as old flake & ~~xxx~~ scarcely any fines. — On account of the strips being previously cut to size, a large part that went through the 15 weeks is twice as long as wide, this is probably an advantage. Considerable portion has a curl in both sides but not many have edge turned over, there is probably no holes in the flake & it strings good as well as tough.

A preliminary trial 21000 grain good Cabaret flake 0001 showed flake all right for burn. — also showed that it was tough but the 4500 grain groove which it made the grain stick, but dry so quick that it broke up so

hand that nothing could go down with it. Could not even rub it out

The drying action I think is due to the great porosity of the frozen wicker. It looks like a clay pipe — I am now soaking 2 lbs in water skin & juice poor off water out out 2 lbs of glue to dry material 1 Sq 45 ft Guano on glass — Wicker left out to dry. One hour on 405 PM — off 550 — Drying on glass plate

Another batch provided work

2 hours Trip — Using no flake white I get the mix off green Guano for R — on 415 PM —

1st Batch weighs after drying 21620 — having gained 620 mlg as I left a little which likely gained 650 to 675 mlg — or say 3 per cent, =

2nd Batch off at 810 pm —
I find that wetting the mix & drying the green in air does the Guano

4500 glucose previously used with undamped green got sticky & stiff but it balled so badly I had to put in that could not do anything with it. The balls got hard from the rapid absorption of the water into the glucose into the green — but with the same amount of green which had absorbed 30% of water. The 4500 glucose was more sticky, but it ball up & worked OK.

Therefore we took second green all night. The quantity of starch wrong so glucose or binder was also perhaps took the value.

The second batch of soaked green which dried longer on the glass plate, dried so long that when we weighed it it had lost all the water that it had soaked up, we thought perhaps we had lost some green but I knew I tried the green 21000 with 4500 glucose balled up & crumbed mix & also notice that the green was very much more brittle than it was when it had soaked up

We shall have to either dry it just enough to be cleaned or we must spray the water on just before we can of green on putting on binders.

Find that by taking grain 10,000 grams 3 cc of 1/2 glycerol/water at 105% green ok to working with grains then 21000 in jar dissolve in water glycerol now half dry. Then dissolve it with glycerol. Req in proportion of 21000 450 cc it will not dry up but is ok - pre dried. 4 cc of chlorox/water ok to keep.

It can dry but when you put the Viscous. Req amount of glycerol it get no sticky properties must be dried on heated cell of glycerol.

dry =

Tried 21000 grain 6 cc of 1/2 + 1/2 H2O + glycerol it moistened it but not very wet, put it to dry on coil of glycerol on heater.

Note on [illegible] a [illegible]
tube with [illegible] - So [illegible] to bring a
3 foot 5" coil —
Cut the tube open on the middle
of [illegible] green [illegible]
There was a good not [illegible], but the net
work is compared [illegible] from 3 to [illegible]
[illegible] coll, [illegible] that green [illegible] 20
all fines in that [illegible] more
flake than [illegible] on the [illegible]
probably [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
particular yet there did not seem to
be much [illegible] in the bulk of
the flake to [illegible] [illegible]
to which [illegible] probably [illegible] —
[illegible] [illegible] not [illegible]
So well as this [illegible] Hardened
8:12 flake [illegible] [illegible]
Tube being 7/43 — [illegible]
[illegible] [illegible]
was put [illegible] [illegible] that
7/43 [illegible] [illegible] flake [illegible]
20 in only
It looks as if less flake + particles of green bodies
dust [illegible] + prevented firm forming a [illegible]
by the glucose —

350 —

21000 green [illegible] in
soaked in water 1 hour and 45 min [illegible]
& then air dried on glass plate,
weight 21650 having absorbed 3%
water — 9000 [illegible] flake —
[illegible] by process, [illegible] in
Hydrogen, [illegible] hours, screened thro
15 mesh — The flake is cut [illegible]
40/1000 wide, by cutting with shears
& creaming a large proportion is since
the wetting, stopping through the screen
End on = These long flakes may be
an advantage but the [illegible]
that flake thro 15 mesh [illegible] used
in Regular feeding machine as
the sifters make it feed [illegible] with
the tube, however [illegible] used [illegible]
this group — Tube [illegible] plated
1/4 of 1000 in a side, [illegible]
strip welded in hydrogen before
bent in tube shape —
Rings put on tube before loading —
See Note The green was not [illegible]
by the flake, it was merely mixed with
flake it would not cover at all the
flake being too stiff. Comments

	WEIGHT	CAL.	TAMPS
352	5.775	271	52
351	5.660	271	51
350	5.805	273	52

	1	2	3	4	5	6
350	522	726	763	807	807	812
351	545	735	757	802	800	803
352	553	736	760	805	800	806

Hot Endurance

	4	57	58	59	60	61		112	113	114
350	After	840	822	820	825	540	After	842	840	828
51	50	830	820	817	807	820	100	840	827	818
52	Hot	841	827	821	815	832	Hot	842	835	826

	115	116		167	168	169	170	171		222
350	835	841	After	835	821	832	835	827	After	852
51	822	825	150	835	822	815	820	816	200	845
52	832	837	Hot	850	837	831	831	825	Hot	846

	223	224	225	226		277	278			
350	837	850	836	827	After	822	820			
51	822	823	825	815	250	815	803			
52	830	830	823	822	Hot	825	822			

permit cooling = it loses its covers
very well mixed and the impression so
the green covered all over with the
glistening surface of [illegible]
round not aggregate it being too
sticky - 50 Double Tamps 3 lbs 5" drop
Ends put in tube, ends rounded in new
machine, soak 48 hours change water
Every 10 hours or so, use 200 cc of
water per tube in back 1 cc of KOH,
after soaking assemble in little soak
with regular change in
+ put in 21% KOH of set of standard
24 hours before going on Endurance.
pour this out + put in fresh 21% KOH
Make 6 runs cold at regular rate
then put on hot endurance, change
KOH before putting on hot test
Weight of cure unbreaked - 5.805
Tamps - 52
Calipers - 273
Hot test fill well - end proper width of tube
Burrs inside -
Run with Regular runs
Run cold 5 runs then put on hot endurance
change KOH just before going on Each
run of 50 Hot -

351 Duplicate of 350

Weight active material 5.660
Tamps 51
Caliper 271

352 Duplicate of 350

Weight active material 5.775
Tamps 52
Caliper 271-

Note on 353. This mix also brings up the that problem kind of gum mix that remains of a pasty + tacky in a plasm not dry - probably on account of the molecules bound in the green acting to make glucose low sticky - also the longitudinal of the flake - & less porous green would probably make green paper kind of dry sticky - However its not certain that the Bridgend mix cannot work in binding machine as plunger each time worked for a right quantity in it dont pack on the sides —

353 not sticky mix

Memo notice Weight active material bot group 353 + 356 - probable sequence that mix of 356 was more sticky + lubricant although 356 was more sticky of anything than 353 = There is something strange about it Can it be effect of the absorbed water, this was, practically the same.

Weight active mat, 6.3 2.5.

353 = Fresh green - Hz friable kind,
21000 - 6 hours under bell jar with sponge absorbed H_2O till it weighed 22000
(1d) 4.5% contain — · 4500 glucose,
9000 new · 0001 Cobalt flakes, Thus 20 mach
Noticed glucose mixed ok with green
Easy - no balls but not very sticky.
~~For~~ Dont cover but only mixes —
granules of green not apparently aggregated but well distributed. Yet will be impossible to cover green with flake which is longer like this + dont work in Can nicely mix it + glucose need to prevent aggregation which perhaps would still be necessary. Possibly 4000 glucose — cannot work — Thus all well g. green to a bowl water is an OK process Can have a chamber with volume of cellulose + green sized + un pressed sized batches, steady, Via lake test as B2 mixed are wanted, I dont notice Thus 20 is any better to an Thus 15 for lake test probably help spread load as shown not be long —
Weight active material — 50 ~~Cobalt~~ — Rungs
Temps 48 273 measured = Sorted = weight for ½% = 21½ for H + 2 hours
Calc —
Cobalt placed in ... 19 ... Burs made
Jar with ... 20 ...

CELL	WEIGHT	CAL	TAMPS
355	6.277	271	49
354	6.473	272	51.
353	6.325	273	48

	1	2	3	4	5	6
353	633	825	865	902	900	908
354	600	815	873	913	905	911
355	627	813	845	875	878	880

Hot Endurance

		57	58	59	60	61		112	113	114	115
353	After	940	926	930	900	927	After	956	940	930	932
54	50	943	935	937	917	945	100	972	958	950	955
55	Hot	918	905	907	857	910	Hot	932	930	922	926

	116		167	168	169	170	171		222	223	224
353	943	After	952	942	935	941	930	After	955	937	940
54	965	150	970	963	957	965	955	200	950	947	945
55	935	Hot	932	920	913	930	912	Hot	937	917	913

	225	226		277	278	279	280	281			
353	936	932	After	945	927						
54	946	942	250	937	922						
55	917	915	Hot	930	910						

354 Dup of 353

Weight am — 6.473
Tamps Double 51
Calleper 272

355 Dup of 353—

Weight am 6.277
Tampa Double #9
Caliper 1/2-71

Note - Note loss in amount

358	5.824	271	47
357	5.786	271	47
356	5.944	272	48

	1	2	3	4	5	6					
356	672	870	897	910	902	912					
357	617	916	840	870	859	860					
358	642	837	850	888	852	885					

Hot Endurance

		57	58	59	60	61		112	113	114	115
356	AFTER	918	907	908	890	912	AFTER	888	885	875	875
57	50	892	875	877	850	870	100	877	870	S.C.	S.C.
58	HOT	912	891	892	870	892	HOT	895	896	883	885

	116		167	168	169	170	171		222	223	224
356	886	AFTER	833	866	862	882	870	AFTER	880	900	896
57	875	150	891	877	867	872	867	200	895	870	875
58	892	HOT	890	877	862	871	862	HOT	882	862	857

	225	226		277	278						
356	892	895	AFTER	925	897						
57	866	868	250	886	867						
58	885	857	HOT	860	850						

356 = 21000 grain absorbed H_2O to 21950,
Thro 20 all finish granule H_2O 11 =
9000 Co Salt, .0001 new Cuskey process Thro 20
Screens 350 - The mix seems very sticky - th.
good & well distributed I think it will bridge in
in loading - Used Nickel plated tubes 1/4 thus
thick on side - ring on tube before packing -
Double Tramp - From the way this mix worked
think 4000 glucose will do - Used 4500
Glucose screens 350 - Burrs inside,
Nickel plating by Cuskey - good - 3 lb weight
5" Drop in loading - To 62 run with
regular old limits

Weight active material 5.944
Temps Loading 48
Calliper 222 - Average 350 - to 62
tested like 3rd group

357 Dup. of 356

Weight-cotton III 5.786
Double T 47
Cal 271

358 Dup of 356

Wt active material 5.824
Double T- 47
Cal. 272

361	5.831	272	50
360	5.555	271	50
359	5.394	272	50

	1	2	3	4	5	6				
359	865	812	807	843	840	850				
360	707	865	857	886	890	900				
361	646	880	885	921	919	923				

Hot Endurance

		57	58	59	60	61		112	113	114
359	After	862	845	842	830	850	After	841	841	842
60	50	896	877	882	871	890	100	887	890	877
61	Hot	928	910	911	893	917	Hot	917	907	900

	115	116			167	168	169	170	171		222
359	837	840	After	833	822	820	822	815	After	840	
60	891	887	150	890	882	882	882	877	200	890	
61	900	908	Hot	922	913	906	906	895	Hot	920	

	223	224	225	226		227	228	229	230	231
359	820	815	810	812	After	810	800			
60	867	862	858	860	250	860	846			
61	900	900	895	895	Hot	905	891			

359 = · 21000 green thro 30 all fumes in — absorbed $\frac{1}{20}$ 4 (weighed) 21943 —
9000 flake Co same as 351 —
4500 Gypsum "
Burns in coke — rings on before loading —
Nickel plated tubes same as 356 —
3 lb drop 5" To be run, soaked 4 to 6 hrs 350

Weight active Material 5.394
Double T 50
Cal 272

Why about same as green thro 20, sticky —

[illegible] plug same by [illegible]

Notice [illegible] are [illegible] than 361 [illegible] machine — There was something wrong with it —

360 Sup 359

Weight 51,555
Tannis 50
Coal 271

360 loaded on new pkg. mine by
Crosby

361 Dup 359

LUt 5.831
T 50
Cal 272

361 - Loaded on old pkg machine

364
363
362

362 = Duplicate of 359 in rosinghuin
except 21000 green thru 40 fumes all in
21000 absorbed water + evaporated.

W+
Double T
Cal

Not made

363 Dup 362

Cat
Bentley T
Cal

not mall

364 Dcep 362

Ust
Dowlin 7
Cal

not made

Note 350 [illegible] only one having
Flake thro 15 mesh
Better groups to here thro 20 mesh

367	5.880	271	50
366	5.925	271	49
365	6.085	272	54

	1	2	3	4	5	6				
365	677	900	910	953	950	950				
366	650	871	893	921	930	931				
367	767	921	915	947	942	943				

Hot Endurance

		57	58	59	60	61		112	113	114
365	After	950	935	940	917	945	After	948	937	932
66	50	938	917	921	917	915	100	915	907	905
67	Hot	910	895	900	895	917	Hot	900	897	877

	115	116	1	167	168	169	170	171		222
365	935	940	After	902	905	900	900	890	After	892
66	907	915	150	862	880	868	886	865	200	872
67	892	900	Hot	857	861	855	866	850	Hot	847

365 21000 thro 40 alifinosin
21000 increased weight to 21690 –
Cobalt plated tube – mixed as before.
filling – in every other respects except
to mesh of grit same as 350 + to be
run the same – flake thro 20 mesh,
9000 Co flake 4500 glucosin –
4500 glucosin

Wt 6.085
Den 6.0 T 54
Unit 272

Mix ok but dryer (consistency) thru
green thro 20 – but if wanted be probably
Notice green in many cases to
agregates – so it may not be any
better than thro 20

	223	224	225	226		227	228
365	882	890	885	882	After	862	857
66	850	851	850	847	250	840	836
67	835	835	832	832	Hot	822	822

366 Dup 365

Wt 5.925
Density T4
Color

367 Dup of 365

LWT 5x40
Smith & T 50
Cal-271

370	5.825	271	48
369	5.651	272	47
368	5.785	271	47

	1	2	3	4	5	6
368	682	866	860	890	891	898
369	581	778	785	821	820	826
370	631	840	850	891	885	897

Hot Endurance

	57	58	59	60	61		112	113	114	115	116
368	After .900	873	875	887	885	After	860	850	850	850	855
69	.50 .870	845	842	815	835	100	850	842	834	837	842
70	Hot .903	877	857	858	885	Hot	881	872	866	872	877

	167	168	169	170	171		222	223	224	225	226
368	After .813	820	812	818	807	After	820	807	805	800	800
69	150 .832	827	817	821	812	200	835	813	815	812	815
70	Hot .865	857	850	853	848	Hot	867	845	850	841	837

	277	278	279	280	281						
368	After	775	777								
69	250	814	786								
70	Hot	842	835								

Assemble with Copper Mercury Irons

368 = 21000 grain lino 20 fines affin -
21000 abonded [illegible] to 21650 —
9000 (Lake Co. [illegible] 350) —
4500 [illegible] " Burs [illegible]
Double Tinnes — Nickel plated Tubes -
Rings on bearing pkg —
Tubes plated 1/4 1000 [illegible] —
All jacked [illegible] Co. 350 —
But they use to be [illegible] —
run with new process Copper Mercury
Irons = [illegible] like 350

Wt 5.785
Dark Co. T 47 [illegible]
Col 271
Mixture stick [illegible]

21650 / 14 = 1500 / 3850

5.785 / 964 / 1.200 / 4.585

369 Dup 368

LCH 5.651
Double 47
Cal 292

370 Rep 368

Ult 5,835
Double T 46
Cal 371

373	5.824	272	49
372	5.740	272	48
371	5.766	271	48

	1	2	3	4	5	6
371	667	837	839	871	867	875
372	627	800	850	865	853	850
373	612	816	837	865	855	862

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
371	After	870	850	850	835	855	After	865	850	850	857	865
72	50	872	850	850	830	854	100	848	850	843	847	850
73	Hot	853	868	865	840	867	Hot	870	787	846	850	857

After 200 Hot

		167	168	169	170	171	222	223	224	225	226	227
371	After	850	813	833	843	827	832	825	830	826	830	
72	150	855	828	827	845	822	210	840	828	827	821	
73	Hot	850	840	827	845	832	791	827	830	827	815	

		277	278
371	After	830	811
72	250	815	800
73	Hot	787	782

371 – Dup of 368 except the last [illegible] taken –
21000 observed [illegible] to 21670 –
Resuscitation [illegible]

Lot 5.766
Lot T 48
Cal 271

Mix very sticky, similar to all the previous. Except 253 which was not very sticky

372 · Dup of 371

Wf 5.740
Lou Sco T 48
Cal 372

373 Rupp 371

Ut 51884
Rouse T 41
Ch C - 272

373	5849	272	49
375	5893	273	50
374	5850	272	49

	1	2	3	4	5	6
374	572	788	821	860	851	865
375	618	800	828	858	853	866
376	692	867	877	900	894	902

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
374	Accep	873	857	855	857	860		870	857	856	860	867
75	50	893	875	872	855	877		885	881	868	875	874
76	Hot	906	880	880	857	882		847	897	883	885	887

		167	168	169	170	171		222	223	224	225	226
374		866	852	850	850	847		862	845	846	843	840
75		876	871	880	880	880		882	860	865	857	853
76		891	887	870	875	870		887	867	875	862	862

	277	278
374	837	827
75	840	835
76	855	845

374 - 21000 absorbed To 21620 - Thro 20/
Cobalt + platinum balls - 7 mgs put on
after pkg —
Everything else same as 350 Except
flaked thro 20 — worked in water
Healed like 350 —
6 4500 glucose,

Lot 5 850
Double T 49
C 272
Mix same sticky + really same as previous
Except 353 —

375 Dup 374

LC f 5843
ET 50
C 273

376 Dup 374

Lot 5849
Dup Lot 49-
Ca C. 272

379	5.415	273	48
378	5.242	273	48
377	5.979	273	50

	1	2	3	4	5	6
377	622	847	880	926	912	905
378	656	866	880	916	900	915
379	681	887	898	935	927	935

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
377	After	945	910	917	900	910		928	918	907	910	917
78	50	915	877	900	875	925		900	898	885	877	894
79	Hot	935	900	915	896	917		917	907	898	900	907

		167	168	169	170	171		222	223	224	225	226
377		930	921	913	915	913		937	912	911	907	911
78		900	897	885	890	885		917	895	895	886	890
79		921	907	896	900	891		920	897	897	887	891

	277	278
377	926	906
78	910	892
79	907	888

377 = 21000 absorbedots = 21665
thro 20 fumes all in -
Nickel tube - rings to 6½ put on after
pkg - 9000 Co 45500 g fuse -
Everything else like 350 except [illegible]
thro' 20.
Rum & Ole James 350

lot 5.979
Dirtlo T 50
C 273
Mix same quickly as previous groups

378 Eup 377

Wt 5.8.12
Barcode T 48
C 273

379-Dup 377

Ucf 5.415-S
Ka66cT 48
Cul 273

382	6.1181	245	49	
381	6.1241	245	48	
380	6.1217	245	49	

	1	2	3	4	5	6	
380	517	725	792	837	837	850	
381	567	797	850	892	890	900	
382	520	750	818	863	865	882	

Hot Endurance.

		57	58	59	60	61		112	113	114	115	116
380	After	875	875	888	867	886		900	902	892	900	907
81	50	893	892	900	875	900		872	S.R.	825	830	822
82	Hot	898	896	900	877	900		897	895	880	881	882

		167	168	169	170	171		222				
380		767	717	712	697	687						
81		525	512	575	527	535	C.O.		5-14-06			
82		622	625	635	627	626						

380												
81												
82												

380 – 21000 [illegible] to 21765. [illegible]
Supf. 350 Sheet Cobalt Blue 20 –
[illegible] – [illegible]
[illegible] Tubes Corrugated on
one side 1.50 [illegible] rings on bottom
Work same as 381, – [illegible]

Lot 6 217
Lot 49 –
Col Cal 245 2 Rings broken in press
but same as usual – [illegible] quality.

381-Eup 360

UCF 6141
Kenfle T 45
Cal 245-2 [illegible] in passing

382 K u A 350 —

LOT 6.181 .49
K ruleG T 245 - 2 Ruggbrodsgjøring
CaC 245

383	5.857	271	48	
384	5.920	271	48	
385	5.840	272	48	

	1	2	3	4	5	6
383	507	875	854	592	870	883
384	587	790	830	867	862	877
385	577	800	847	882	882	883

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
383	After	907	882	885	867	895		897	892	881	883	888
84	50	900	885	890	867	896		893	895	880	885	888
85	Hot	900	886	900	868	896		912	900	882	893	900

		167	168	169	170	171		222	223	224	225	226
383		900	887	881	887	882		900	872	881	867	876
84		900	888	886	891	885		900	882	887	877	876
85		908	900	890	897	894		912	895	895	888	883

		277	278
383		877	865
84		892	881
85		900	883

383 21000 - absorbed to 21614 —
Then 20 times all in —
900 [illegible] 1 hr 20 —
3500 of Glucose —
tube broke during 3 350 —
Cobalt [illegible] tube rings on 2 fors
[illegible] —

Wt 5.840
Dodge T 48
Cal 272

Mix stickyness good, same as the others except think of little more sticky not well behaved
has only 3.500 glucose —

384 Supp of 383

Lof 51920
Lewis T 48
CaC 271

385 Dup of 383

Wt. 51.857
Bowlle T 48-
CoC-271

from 350 to 386 grape berry always
fuscide when off. Guns will
be used on all tubes. —

388	5.900	272	48
387	5.960	271	54
386	5.970	272	51

	1	2	3	4	5	6
386	630	826	872	911	905	916
387	615	828	882	918	925	922
388	787	900	932	962	950	955

Not Endurance

		57	58	59	60	61		112	113	114	115	116
386	After	908	898	905	250	710	After	662	662	667	700	685
87	50	900	907	912	895	925	100	937	935	946	936	942
88	Hot	955	942	953	920	950	Hot	960	945	935	938	948.

		167	168	169	170	171		222	223	224	225	226
387	After	942	944	935	946	932	After	923	905	910	901	897
88	150 Hot	565	950	945	955	937	200 Hot	932	880	932	912	917

	117	118	119	120		121	122	123	124	125		226
386	710	912	927	915	After 150 Hot	927	922	922	920	920	After 200 Hot	925

386 – 21000 [illegible] 820 to 21700
Thro 20 [illegible] —
Cobalt [illegible] 9000 – Thro 20 –
Only 2500 glucose
Manipulation muddled 850 –
Cobalt plant tube mysterious all

Wt. 5970

Endurance 51

Cal 272

Wt worked too dry but [illegible] was
covered heavily by glucose —
[illegible]
3500 to [illegible] after
on grind we 4 [illegible] cutting
green [illegible] 20 [illegible] —

	277	278	279	280	281
387	After 250	885	870		
388	Hot	905	905		

227	228	229	230
912			

387 Dup 386 –

Lot 5960

Coll 271

Dan Jump 54

389	5.828	272.50
390	5.814	272.47
391	5.817	271.50

	1	2	3	4	5	6					
389	670	843	875	841	858	882					
390	600	716	750	782	750	765					
391	645	825	852	830	848	850					

Hot Endurance

		57	58	59	60	61		112	113	114	115
389	After	920	920	900	900	902		912	891	900	890
90	50	897	895	892	880	883		900	873	882	895
91	Hot	902	900	897	890	887		906	878	888	886

	116		167	168	169	170	171		222	223	224
389	80		912	905	912	897	891		885	851	851
90	875		892	892	892	882	876		865	840	841
91	875		900	897	902	893	888		883	860	85-

	225	226
389	850	865
90	846	850
91	855	857

389 - 21000, [illegible] 21720
Here 20 fuses all in —
Cobalt [illegible] tube, complete
one side, 9 feet ring on [illegible]
filling [illegible]
good Coffee [illegible] 20
[illegible]
Manipulate to Bottle 555 —
Cor 150 atmos —

Wt 5.817
Cal 271
Dol T 50

Mix not so sticky as usual

[illegible]

390 Dup 54

Wt 5.814

Ca 272

Rubber 48

This tube was one of four that were not numbered but could recognize it from others as the rings were loose. This one did not have the 24 hrs KOH soaks and changed, but simply soaked up stairs 24 hrs and run in the same KOH.

391 Rup 35T

Cat 5,828
Cal 272
Pur 50

394	5.854	.250	48	
393	5.725	.245	49	
394	5.943	.242	48	

	1	2	3	4	5	6
392	500	832	877	900	900	917
393	505	830	842	866	856	870
394	517	735	792	837	837	845

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
392	Amber	938	967	918	895	920		930	920	908	911	918
93	50	888	867	865	850	875		882	875	865	867	880
94	Hot	900	872	880	850	876		882	875	865	867	880

		167	168	169	170	171		222	223	224	225	226
392		925	915	895	911	898		740	910	910	902	894
93		883	868	850	867	860		881	865	862	857	850
94		867	848	830	845	830		845	835	832	815	800

	277	278	279	280	281						
392	872	862									
93	842	821									
94	672	681									

392 21000 absorbed lb/ft² 21855

9000 Kraft Corrugated Fiber Thru 20

4000 Sisalkraft

Nickel plated tube Cellulose on after pkg – Corrugated on inside – before

150d Atmosphere – Bumping also on 350° –

Wt 5.943

Cal 248 –

Density 48

Mix same as usual – perhaps point little more sticky on most large absorption lb/ft² than usual –

393 Dup 392

Lot 5753
Cal 245
J Donald #9

394 Dup 392

Wt 5.854

Cal 250

Double T. 48

All tubes [illegible]

Double tanks all Chevrolet
same except when [illegible]
stated +

397	6.200	245	49	
396	6.255	244	50	
395	6.283	246	49	

	1	2	3	4	5	6
395	422	700	745	860	875	896
396	462	730	812	878	887	893
397	465	742	827	883	887	892

Not Endurance

		57	58	59	60	61		112	113	114	115	116
395	After	932	925	943	906	940		420	600	650	700	770
96	50	930	915	942	900	942		940	936	922	928	940
97	Not	931	915	915	896	922		912	917	908	913	920

		167	168	169	170	171		222	223	224	225	226
395		931	927	918	932	927		955	932	932	915	918
96		947	935	927	940	925		945	932	932	917	927
97		878	915	910	912	912		940	922	923	918	917

395. Dup of 392 –
Nickel tube – Except rings put on
After – packing & Corrugated one
side 150 atmosphere
21000 gives absorbed to 21900 –
4000 glucose
9000 Cobalt tube 60

Wt 6.283

Cal 246

T 49

after Corrugated – rings put on

	277	278	279	280	281						
395	906	867									
96	875	850									
97	857	877									

396 - Dup 395

10 f 62.55

CaC 244

T ~~234~~ 50

397 Cup 395

COT 6.100

CaC 243

T 49

400	5.866	244	49
399	5.710	246	45
398	5.814	248	48

	1	2	3	4	5	6
398	513	741	781	827	830	842
399	480	722	786	825	835	870
400	527	722	789	812	830	810

Hot Endurance

		57	58	59	60	61		113	113	114	115	116
398	After	876	850	876	863	857		883	870	870	877	885
99	50	850	837	872	857	855		848	846	835	840	846
400	Hot	858	837	867	857	855		861	858	837	832	852

		167	168	169	170	171		222	223	224	225	226
398		875	887	852	846	857		797	775	762	770	750
99		770	772	767	770	755		650	667	685	670	642
400		747	755	743	745	745		677	680	690	690	685

		277	278									
398		635	663									
99		571	600									
400		556	595									

398 – 21000 abs H_2O To 21670

Cobalt plated tube ring on after packing – Corrugated 150 set before ring pattern 9000 Cobalt flake 4000 gluten

Wt 5.814

Cal 248

T 48

399 Dup 397

Wt 5710

CaC 246

T·48

400- Dup 398

Lot 51,668

Cal 249

J 49-

403	5592	271	50
402	5,646	271	48
401	5,558	272	49

	1	2	3	4	5	6
401	665	813	820	857	860	850
402	662	805	818	853	860	857
403	607	781	792	827	850	840

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
401	After	872	847	870	877	862		875	862	870	871	865
02	50	872	850	877	880	870		885	865	872	870	860
03	Hot	850	842	862	865	857		875	867	857	857	877

		167	168	169	170	171		222	223	224	225	226
401		867	862	847	857	850		872	850	850	845	841
02		882	872	867	867	860		882	877	872	867	865
03		882	881	866	867	862		890	870	866	857	855

		277	278									
401		855	842									
02		850	843									
03		826	818									

Made

401 – Grewitted 20 fuses [illegible]
8000 wound grids Cobalt tubes
21000 absorbed to 21639 –
Now change to 8000 Cobalt tubes
4000 grids,
all tubes [illegible]
Cobalt placed tubes – Run on
before packing –

W.T. 5588

J 49

C 272

402 Dup of 401

Wt 5648
Cal 271
T 48

403 Dup of 401

Wt 5593
Cal 271
T 50

406	6.320	277	49
405	6.315	272	48
404	6.365	279	49

	1	2	3	4	5	6
404	707	897	937	963	975	962
405	646	871	920	905	906	900
406	690	865	908	932	947	932

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
404	After	972	952	977	985	981		1000	993	977	977	978
05	50	912	897	927	918	915		947	935	918	922	940
06	Hot	895	900	930	920	925		945	930	918	920	940

		167	168	169	170	171		222	223	224	225	226
404		1015	1005	990	992	957		991	992	992	980	978
405		922	915	912	910	915		50	50	927	917	937
06		927	925	916	925	915		907	900	900	900	890

		277	278									
404		995	978									
05		922	910									
06		857	880									

404 — Lup of 401

Except 7000 Cobalt fr Lutro 30

21000 gram Lutro 30 - 6 grams Co. 21900
gram Lutro 30 fumes cc. 4000 g Co

Co 6.365

Co C 279

T 49

Mix slightly less slightly than usual
probably due to extra admixture of [illegible]

405 Dup 404

Lof 61315
CaC 273
T 48

406- Dup of 404—

UUf 6.230
CaC 277
T 49

407	6.137	272	49
408	6.265	277	51
409	6.290	273	48

	1	2	3	4	5	6
407	675	912	966	1000	1007	1000
408	547	745	900	850	863	843
409	630	927	867	902	910	895

Hot Endurance

		57	58	59	60	61						
407	Attk	977	965	1000	991	987	992	982	970	971	972	
08	50	850	842	877	870	826	875	890	880	875	906	
09	Hot	860	870	905	895	897	897	888	873	875	894	

		270	271	272	273	274						275	276
407		960	982	966	965	955	972	965	957	950	943		
08		892	900	892	900	880	900	900	895	890	886		
09		867	880	868	880	887	877	880	880	870	866		

		277	278
407		890	903
08		882	870
09		837	837

407 = Kupfer 301

Except 6.000 Cabbiffe to have 20
400 glucose
Zero [illegible] to 22140
green have 20 fours all in

Cot. 6290

CaC 273

T 48

Why should [illegible] have [illegible] than usual?
green shows up considerably but
think there will be no segregation.

408 Eup 407

Wf 6.265
Cal 272
T 51

409 Dup 407

Wt 6.137
Cal 272
T 49

412	5.754	272	49
411	5.590	272	50
410	5.701	273	47

	1	2	3	4	5	6
410	730	866	956	902	917	906
411	730	860	950	900	897	893
412	752	891	925	927	925	922

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
410	After	935	908	960	912	915		917	905	888	892	904
11	50	900	886	918	912	907		907	887	875	872	884
12	Hot	950	917	945	945	914		946	931	915	910	927

	167	168	169	170	171		222	223	224	225	226
410	905	898	893	900	890		900	885	886	876	875
11	850	861	850	850	845		850	842	845	837	817
12	906	912	893	892	887		892	885	882	870	860

	277	278
410	845	850
11	755	755
12	870	817

410 Dup of 401

Except 5000 Cabot Furnace Iron 20
4000 Glucose —
21000 absorbed H_2O To 21631
grain Iron 20 fines 0.1 in

Wt 5.701
Cal 273

T 49
(to 700 Water absorbed)
In 21000 Weeks the most
Workably mix — no water increase
Usable [illegible] [illegible] —

411 Dup of 410

Wt 5590
CaC 272
T 50

412 Rup 410

Wf 5754
CaC 272
T 49

415	5.645	273	50
414	5.645	273	50
412	5.645	273	50

	1	2	3	4	5	6
413	697	825	824	862	863	856
414	727	878	886	925	940	936
415	772	912	907	950	962	957

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
413	After	903	887	910	898	892		875	872	883	851	865
14	50	905	885	921	921	915		877	880	877	886	883
15	Hot	918	917	957	921	917		927	908	900	902	921

		167	168	169	170	171		222	223	224	225	226
413		850	832	828	825	825		680	727	740	727	712
14		787	812	811	812	807		670	737	760	757	750
15		845	865	855	858	846		840	845	850	840	840

		277	278									
413		612	700									
14		650	717									
15		747	755									

413 Same as 401

Except 4000 Cobalt glass tube 20
400c Chromel
21000 ohm reduced $1/2$ to 21700
gain thus 20 times as in

Wt 5.645

Cob 273

T 50

Usual slickey mix –
Think there will be no segregation
given time to Embrittlement

44 Rup 413

Lot 51645

Cal. 273

T 50

415 Dup 413

LiH
CaC } Lost
T

416	5.730	274	42
417	5.714	272	47
416	5.925	274	47

	1	2	3	4	5	6
416	741	898	900	922	936	927
417	670	865	902	913	912	902
418	695	878	900	940	941	922

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
416	After	757	917	950	941	940		906	910	895	900	912
17	50	840	888	927	920	917		600	58	370	590	898
18	Hot	918	880	915	915	907		752	812	815	812	818

		167	168	169	170	171		222	223	224	225	226
416		737 / 122	775 / 118	786 / 119	786 / 120	770 / 121		675 / 122	725 / 122	750 / 124	743 / 125	747
17		670	842	837	817	707		750	770	770	771	
18		676	712	736	733	720		627	680	707	705	

		277	278									
416		615 / 227	682 / 227	228	228	220						
17		711	747									
18		712	637	682								

416 – Same as 401

Except 3000 Cubic feet flume flow 201 –
4000 [illegible] –
21000, absorbed [illegible] to 21650.
4 [illegible] flow 20 [illegible]

Wt 5.925

Cal 274

T 47

Given in Mix as need proportioning
to well [illegible] degs [illegible] & [illegible]

417 Dup 416

Wf 5761
CnC 273
T 47

48 Cup 416 -

Wt 51730

Cal 274

T 48

421	6000	272	50
420	6.132	273	49
419	6.036	272	48

	1	2	3	4	5	6	
419	626	937	967	1010	1010	993	
420	57	700	910	994	1002	997	
421	593	887	924	964	970	950	

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
419	After	705	735	762	775	780		620	687	677	645	697
20	50	750	775	817	830	815		655	59.	600	657	663
21	Hot	746	542	882	881	872		680	750	727	740	751

		167	168	169	170	171	..	222	223	224	225	226
419		445	545	595	612	602		450	550	590	595	592
20		397	535	570	582	577		427	492	522	527	530
21		485	592	622	637	625		462	560	587	595	590

		277	278									
419		395	530									
20		445	556									
21		457	548									

419 Dance 421

Except 2000 Cobalt flake Fluxes
4000 Chrome
21000 absorbed H_2O to 21615 –
given the 20 fumes 000 in

Cl 6.036

Cal 272

T 48

?

This mix was not sticky probably because weighed wrong & too much absorbed water. This mix will probably not require but 2000 is entirely wrong part of trunk – only 1/4 or 1/3rd of the bottle showing enormous bulk of 9000 Cobalt.

420. Dup 449

Lot 6.132
Cal 273
T 49

421 Dup 419

Wt 6.000

Cal 272 -

T 50

4-4-6.163	274	50	
422	4.037	273	50
422	5.820	272	47

	1	2	3	4	5	6
422	565	736	755	745	763	767
423	607	750	793	759	762	772
424	590	761	820	766	760	753

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
422	After	882	877	877	867	855		890	875	882	874	875
23	50	875	897	893	872	855		912	895	902	892	900
24	Hot	912	922	910	902	900		737	910	918	915	918

		167	168	169	170	171		222	223	224	225	226
422		865	856	862	847	837		710	710	705	702	696
23		925	922	925	915	907		790	780	775	775	770
24		887	882	890	880	865		740	737	723	726	731

	277	278
422		
23		
24		

422 – 21000 absorbed to 21745 –
Thro 20 fine mesh in
Cobalt plated tube,
9000 Cobalt of Cake thro 20 –
4000 glycerine –
Packed without rings –
After soaking & drying, they are to be centrifuged 150 at two & Rings put on after drying with like 350 –

Wt 51.880

Cal 273

T 47

423 Dup 422

Wt 6.09
Col 273
T 50

424 Dup 423

Cot 6.163
Cal 174
T 50

427	5.877	272	48
426	5.932	272	49
425	5.705	272	49

	1	2	3	4	5	6
425	552	720	767	780	797	815
426	500	712	790	800	828	841
427	592	767	817	797	823	850

Hot Endurance

		57	58	59	60	61	112	113	114	115	116
425	AFTER	890	887	875	892	865	880	881	890	881	886
26	50	906	905	900	896	887	930	900	906	900	902
27	Hot	916	912	903	905	905	925	902	906	900	900

		167	168	169	170	171	222	223	224	225	226
425		890	892	887	892	882	886	875	868	867	877
26		925	917	917	915	900	910	883	877	880	890
27		910	915	917	910	892	862	831	832	825	831

425 - Dup. of 423 -

Except Nickel plated tube used -

2100 n Barbitr. 21635 -

green thro 20 fine acc in rinsing out in water

soaking & drying & compositing

Cot 5.705

Cal 272

T 49

426 & up 425

Lot 51932
CaC 272
T 49

427 Dup 425

Cat 5,877
Cal 272
T 48

430	5.507	271	49
429	5.455	272	49
428	5.450	273	49

	1	2	3	4	5	6
428	686	812	800	831	850	837
429	692	826	825	857	867	850
430	686	815	812	847	850	837

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
428	After	847	817	837	832	841		S.C.	825	800	818	838
29	50	867	845	850	872	865		872	857	847	858	868
30	Hot	850	825	847	845	842		852	840	830	832	850

		167	168	169	170	171		222	223	224	225	226
428		822	815	800	800	800		840	825	822	817	818
29		857	852	837	830	837		862	847	842	842	842
30		850	847	836	825	830		863	845	837	830	830

		277	278									
428		826	807									
29		842	838									
30		848	823									

428 · 21000 absorbed to 21602 — Hourglass
9000 Cobalt flake No 20
4000 Guanie - Cobalt plated Fibers,
Mix to 6% dried before packing —
Rings on 6% before packing - C

Wt 5.450

Cal 273

T 49

429 Rup 4256

Wt 51652
Col 277
T 49

430 Dup 428

Lot 5150m
CaC 271
T 49

From 350 to 431 - Every group has
0001 new CuCo finished Cubes
Kly - Run thru Hydrogen
Take thru 20 mesh Except 350
which is through 15 mesh
All have dried in Trays
All have green thru 20 mesh
Except those after filtering & dried
Otherwise the mesh had been
absorbed to prevent green flying
of powder - Which is a related
improvement. The fines are
the most trouble in everything
Crushed to make minimum fines -
All the same of Cubes
which is considered brought from
Energy Comm as best Liquid
Cubes - With 1/2 of 21% KOH
with 20000 to tube only Laboratory
the soaking varies in time yellow
or not nightly Kly due to action
of KOH on Cubes
All mixed show green there is no
Coosing the grains is broken up
with aggregate not well distributed
throughout the Cake -

431 - Dup of 428 Made
Except Made placed tube
9000 Co Cake
4000 Cubes
Mixed dried before pkg -
Rings on before pkg -
21000 grm absorbed H_2O To 21650

Wt 5.160

Cal 272.

T 48

432	5.240	272	49
432	5.229	272	49
431	5.160	272	49

	1	2	3	4	5	6
431	710	772	765	720	744	776
432	713	790	757	760	785	812
433	792	842	830	777	797	837

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
431	After	800	805	800	800	801		811	795	800	795	765
32	50	835	830	817	812	822		835	815	825	812	806
33	Hot	842	840	832	827	835		841	833	832	820	817

		167	168	169	170	171		222	223	224	225	226
431		805	800	800	797	767		782	760	755	752	75[illegible]
32		815	817	822	817	807		817	782	790	790	78[illegible]
33		833	825	830	825	815		816	787	782	782	78[illegible]

	277	278
431		
32		
33		

432 Dup 431

Wt 5.229
Cal 272
T 49

433 Dup 431 —

Wt 5.240
Cal 272
J 49

436	6.355	273	49
435	6.2.11	273	48
434	6.304	272	50

	1	2	3	4	5
434	927	900	905	856	868
435	945	923	921	877	887
436	946	922	912	882	893

Hot Endurance

		56	57	58	59	60		114	112	113	114	115
434	After	925	920	910	907	907		916	903	912	905	89[illegible]
35	50	942	935	930	935	920		930	908	920	908	9[illegible]
36	Hot	950	950	937	930	923		947	928	937	926	9[illegible]

		146	147	148	149	150		211	212	213	214	215
434		926	925	920	925	916		925	900	900	896	910
35		935	937	940	932	920		932	907	900	900	9[illegible]
36		947	945	950	940	925		935	910	900	905	9[illegible]

		216	217									
434												
35												
36												

Made

434 = 21000 absorbed to 21750
9000 Cobalt of Coke 0.001 - Thro 20
4000 of Cuprous -
Co plated Tubes - rings on before packing

This group to be changed 10 hours & allowed to rest 10 hours changed again 10 hours rest 10 hours - 400 on so it gets 3 changes of 10 hours & three 20 stops after ten hours before discharging — These after runs in the regular way 5 complete charges through them to go on hot stands required —

Wt 6.304
Cal 272
T 50

435 Dup 434

Wf 6211
CaC 273
T 48

436 - Dup 434

CU f 6.385

Cal 273

T 49

437	5.6[illegible]4	272	48	
438	5.644	272	48	
439	5.5[illegible]5	271	50	

	1	2	3	4	5	6
437	623	793	837	787	800	823
438	597	797	846	806	837	845
439	598	775	837	781	797	822

Not Endurance

		57	58	59	60	61		112	113	114	115	116
437	After	847	854	850	846	843		865	838	850	840	843
38	50	880	882	875	875	870		886	862	871	861	862
39	Hot	850	850	847	840	842		878	850	861	850	857

		162	163	164	170	171		222	223	224	225	226
437		855	847	850	847	837		840	810	810	807	817
38		880	870	880	877	858		865	832	832	832	841
39		857	877	888	880	870		885	850	850	850	86[illegible]

		227	228
437			
38			
39			

Made

437 = 21600 changed to 21600
9000 Cobact glaze reg Ilmo 20
4000 glucinum
Cobact glaze tubes —
Rings on before packing —
Pack with Convex plunger rod regularly

~~Last~~

Weight, 5,525
Cal 271
T 50

438 Dup 437

lof 5.644

Cal 272

T 48

439. Dup 437

Wt 5.68 y

Cal 272

T 48

440	5.757	272	48
441	5.674	272	48
442	5.675	272	49

	1	2	3	4	5	6
440	632	822	855	800	830	847
441	556	776	805	760	803	818
442	592	785	825	791	822	842

Hot Endurance

		60	61	62	63	64		115	116	117	118	119
440	After	850	860	840	850	845		862	860	862	862	847
41	50	850	857	837	845	842		878	865	865	862	850
42	Hot	857	855	835	837	840		886	872	867	865	85

		175	176	177	178	179		225	226	227	228	229
440		832	847	846	850	857		855	832	833	837	841
41		861	857	850	858	860		865	842	845	848	841
42		861	861	856	862	866		872	854	850	855	848

440 = .2100 reduced to .21665
9000 Lubrit finish Eng thus 20
4000 Chrome
Cobalt plated tubes, rings on before pkg.
Ralphs New Copper Heavy brass
To be run 3 times Cold then reversed
once full time of a reg change or
changed overnight - Run 3 times
Regular - Keep this up
until it has had 3 Runs of 3.
Each with a reversal between
Each 3 days - then put on hot
test + after 25 hot runs reverse
Change if hot engine then put back
to regular + let it run its fence
50 changes the reversal engine
Thus test it to determine if the
Copper has a good influence -

Lot 5.675
Cal 272
T 49

441—Rup 440

Wt 5.684

Col 272

T 48

442 Rup 440

Wt 5,759
Col 272
T 48

445	5.102	272	49
444	5.938	273	48
443	5.854	273	49

	1	2	3	4	5	6
443	657	832	860	816	840	855
444	686	848	870	832	862	880
445	658	840	867	833	860	880

Work Endurance

		60	61	62	63	64		115	116	117	118	119
443	After	881	875	855	865	862		900	897	882	889	8[illegible]
44	50	907	902	880	890	885		925	917	902	885	8[illegible]
45	Hot	891	887	868	875	875		912	900	892	892	8[illegible]

		170	171	172	173	174		225	226	227	228	229
443		886	878	876	882	885		886	866	860	865	867
44		900	900	891	900	900		910	886	882	885	8[illegible]
45		870	878	877	885	892		890	866	864	865	8[illegible]

443 = Duplicate of 440
Except use Nickel plated tubes
21600 grounded to, 21600

Wt 5.854
Cal 273
T 49
good feeling

444 Sup 443

Lit 5.938
Cal 273
T 48

445 Dup 443.

Wf 5.902
Col 272
T 49

445	3,400	26-91-93	1003-250 Cu
447	3,400	82-90-94	" "
448	3,400	82-90-94	" "
447	3,400	83-90-91	" "
446	3,400	82-90-94	" "

	1	2	3	4	5	6
446	380	433	440	450	455	465
447	367	416	417	432	427	450
448	370	425	442	456	458	472
449	362	415	418	437	442	455
450	350	405	417	433	445	450

Not Endurance

		57	58	59	60	61		112	113	114	115	
446	AFTER	485	495	492	495	490		497	496	502	497	495
47		475	487	480	475	467		450	452	463	461	472
48	50	500	503	500	497	502		472	476	485	482	485
49		467	472	472	470	471		480	475	485	481	480
50	HOT	492	492	493	490	487		472	450	467	480	478

		167	168	169	170	171		222	223	224	225	226
446		495	485	495	495	485		435	421	427	427	428
47		440	435	443	445	442		390	400	395	392	390
48		475	470	477	475	467		440	447	437	440	442
49		447	447	455	457	450		378	398	382	380	385
50		445	437	447	447	432		367	390	378	371	375

Made –

446, 21000 absorbedts –
9000 Cabot's reg flake thru 20
4000 Glimmer
Thus mix the 2 best in sequence [illegible]

Cups and pressed # 100 alumina
Smooth press – or 250 Alumina
Corrugating pressure – 3.4
Put in 2 gals Cups –
Regular time used –
Run in same way as with
Jars – Make 5 pockets –
Nickel plated or [illegible]

Wt 3.4

CaC Cones 88 – Sides 90-97

447 – Calliopes – Cowles 83 – Sales 90 to 91

448 Cowles 89 – Sales 94 – 97

449 Cowles 88 Sales 90 + 97

450 Cowles 86 – Sales 91 to 93

451	5.490	.272	.48
452	5.705	.277	.49
453	5.596	.272	.48

	1	2	3	4	5	6
451	707	800	800	768	785	807
452	720	827	840	797	817	830
453	705	808	817	770	786	797

Hot Endurance

		57	58	59	60	61		112	113	114	115	
451	After	840	837	832	830	827		840	828	833	845	8 6
452	50	867	850	868	860	861		855	845	850	840	8 6
453	Hot	855	860	847	845	846		862	840	850	840	8 3

		162	163	169	170	171		222	223	224	225	226
451		827	822	830	822	808		811	782	791	792	7 7
452		850	830	800	795	832		821	550	632	838	7 7
453		860	847	850	847	838		830	807	800	807	7 7

	277	278								
451										
452										
453										

451 - 21000 [illegible] 21700
9000 [illegible]
4000 [illegible]
Cobalt [illegible] - rings on [illegible] packing =

To be assembled with old iron taken from twin cells which were cut out 21st Feby - used the cells that were the highest [illegible] with problem of use iron from old 31 33 + 34

Wt 5490

CoC .272

T .48

452 - Dup 1451

Lit 5705
Col 272
T 49

453 Dup 451

Wf 5.596
Cal 272
T 48

454	5.492	272	48
455	5.491	271	48
456	5.447	273	48

	1	2	3	4	5	6
454	687	815	831	792	807	827
455	650	825	847	817	835	846
456	640	800	828	795	816	820

Hot Endurance

		57	58	59	60	61		117	118	119	120	
454	After	866	872	862	854	857		866	847	852	845	83
55	50	842	890	857	857	881		887	871	872	857	86
56	Hot	872	848	835	832	835		842	843	843	833	83

		167	168	169	170	171		225	226	227	228	229
454		867	857	865	850	845		857	835	835	831	83
55		872	857	877	867	850		857	835	832	830	7
56		842	877	832	835	832		850	830	830	835	7

	277	278									
454											
55											
56											

454 Duplicate of 451
21600 Transition to — 21600
Except Mechanical [illegible]
and
Use mans from 41 45 & 55 —

Cot 5.492

Co C 272

T 48

455 Dup 454

Wt 5.491
Col 271
T 48

456 Rup 454

Wt 5.447

Cal 273

T 48

457	5.498	271	48
458	5.432	271	48
459	5.223	271	48

	1	2	3	4	5	6
457	617	778	795	740	757	775
458	620	780	792	737	750	773
459	607	737	740	715	744	750

Hot Endurance

		57	58	59	60	61					
457	After	832	820	815	800	810					
58	50	817	815	800	797	810					
59	Hot	800	797	787	775	780					

457											
58											
59											

457						
58						
59						

457 = 21000 - absorbed to 21[illegible]
Green nickel hydroxide not so poisonous the sulphate reduced by an extra wash before drying
just brought up to Lab by Fri pm 22nd
screened Nov 20

9000 Cobalt 19 9000 Nov 20
Cobalt & Carb Cobalto — huge no
before dry

100 - 5498
Cal 271
T 48

Thro mixing terribly sticky - stiff dough - after flake put in it balls & hard hard time break balls still same in - got worse after they were put through flake pick up moisture only very little green accr - Must let the Kind of green absorb one gram or more water to stop drying up mix

458 Dup 457

Cat 51433
Cal 271
T 48

459 Dup 457

Uof 5323
Cal 271
748

460	5.573	272	49
461	6.012	272	49
462	5.784	272	50

	1	2	3	4	5	6
460	640	792	802	796	816	835
461	707	890	902	855	898	895
462	610	795	815	780	806	835

Hot Endurance

		57	58	59	60	61	112	113	114	115	116
460	After	837	875	861	850	857					
61	50	950	942	935	927	925					
62	Hot	906	897	892	892	886					

	167	168	169	170	171	222	223	224	225	226
460										
61										
62										

	277	278	279	280	281
460.					
61					
62.					

460 Duplicate of 457
Except two Nickel [illegible]
Electro-[illegible] given [illegible]
[illegible] Co. — 22.060 —

Wt 5.573

Cal 272

T 49

461 Rup460
10-f 6.012
Cal 272
T 49

462 Dup 460

Lot 5,784
Cal 272
T 50

463	5.554	273	47
464	5.656	272	47
465	5.624	272	48

	1	2	3	4	5	6
463	655	792	802	785	796	812
464	672	800	817	795	800	822
465	667	808	827	796	803	833

Hot Endurance

		57	58	59	60	61	112	113	114	115	116
463	After	867	857	846	837	847					
64	50	892	887	875	862	871					
65	Hot	882	870	856	850	847					

		167	168	169	170	171	222	223	224	225	226

		277	278	279	280	281					

463 = Duplicate of 457 except.
3500 [illegible]
Carbon [illegible] [illegible]
pkg = [illegible] 21000 [illegible] % 22000-

Lit 5.554

CaC 273

T 47

Mix very thick, roughly but not longer 3400 W & test for [illegible] Nickel hydrate & [illegible] 3000 w.c.d.) do about as well I think

464 = Dup of 463

Cot 5.658

Cal 272

T 47

465 Dup of 463 =

Wt 5.622

Cal 272

T 48

466	5.659	273	48
467	5.620	273	50
467½	5.625	273	47

	1	2	3	4	5	6
466	605	843	876	830	847	875
467	673	843	861	827	833	868
467½	673	832	860	815	821	845

Hot Endurance

		57	58	59	60	61	112	113	114	115	116
466	Approx	895	887	877	870	871					
467	50	895	882	877	872	871					
467½	Hot	892	881	877	872	871					

	167	168	169	170	171	222	223	224	225	226
466										
467										
467½										

	277	278	279	280	281					
466										
467										
467½										

466 = Dup of 45%
Except 3506 of Cu was
put in Nickel plated Iron
rings on before pouring
21000 absorbed to 22000

Cl f 5.659

Cal 273

T 48

467 Dup of 466

Wf 51630
Cal 273
J 50

467½ Dup of 466.

Wf 5.625

Cal 273

T 47

468	5.434	272	48
469	5.475	272	48
470	5.565	272	50

	1	2	3	4	5	6
468	712	842	552	800	800	832
469	775	873	887	795	822	855
470	713	848	850	797	832	868

Hot Endurance

		57	58	59	60	61	112	113	114	115	116
468	After	167	350	446	530	590					
69	50	570	847	850	850	850					
70	Hot	900	895	822	885	887					

	167	168	169	170	171	222	223	224	225	
468										
69										
70										

	277	278	279	280	281					
468										
69										
70										

468 = Duplicate of 457
Except 3500 glycerol
+ 7000 Cobalt reg (Inhibitor 20
Cobalt phenol tubes, rings on
before pouring —
21000 abandoned to 22060 -

Wt 5.434

Cal 272

T 48

469 Dup 468

Wt 5.475

Cal 292

T 48

470 Dup 468

Lot 5,568

Cal 272

T 50

471 = Duplicate of 457
Except 3500 glucose
7000 Cobalt Cabbiers
But in Mackalpd Cal Labs
rungoon Bafford pkg
21000 absorbin To

Wt
Cal

T

472 Dmp471
Wf
Cal
T

473 Dup 471

Wt.

Cal

T

474	5.697	273	48
475	5.680	273	48
476	5.659	272	48

	1	2	3	4	5	6							
474	677	798	802	796	800	817							
475	632	787	796	786	800	817							
476	657	772	780	775	775	802							

Hot Endurance

		57	58	59	60	61	112	113	114	115	116		
474	After	867	867	850	847	850							
75	50	856	850	837	835	835							
76	Hot	850	847	836	837	836							

	167	168	169	170	171	272	273	274	275	276			
474													
75													
76													

	277	278	279	280	281								
474													
75													
76													

4"H = 21000 absorbed to 21600 —
Requires fusible green cue from usually
in 350 sec — Thus 20 —
Cobalt plated tube to be packed
without any rings then oval rings
put on which are 10 to 15 1000 larger
than the outside of tube, the oval
form serving to hold rings on position
until the packing holes are filled
9000 Cobalt fuse ray thus 20
4000 of Cuprous —

Wt 5.697

Cal 273

T 48

475- Dup 474

Wt 5.680

Cal 273

T 48

476 Dup 474

Wf 5.659
CaC 272
T 48

477	5.799	273	48
478	5.895	272	49
479	6.097	273	48

	1	2	3	4	5	6
477	646	825	857	855	850	821
478	612	812	855	855	857	880
479	694	867	897	897	897	922

Hot Endurance

		57	58	59	60	61	112	113	114	115	116
477	After	940	927	927	915	908					
78	50	915	905	900	895	895					
79	Hot	967	952	950	950	941					

	167	168	169	170	171	222	223	224	225	226
477										
78										
79										

	277	278	279	280	281					
477										
78										
79										

477 = Dup of 474
Except was Nickel plated tubes
green 21000 absorbed to 21672

Wt 5.799
Col 273
T 48

478 Dup 474

Lit 5,895
Cal 272
T 49

479-Eup 474
WT 6097
CaC 273
T 48

480	6.003	.273	51	
481	5.818	.272	50	
481½				

	1	2	3	4	5	6	
480	.667	.840	.960	.996	.905	.892	
481	.610	.810	.850	.896	.915	.897	
481½	—	—	—	—	—		

Hot Endurance

		53	58	59	60	61						
480	After	.907	.854	.907	.900	.897						
81	50	.900	.855	.916	.900	.900						
81½	Hot	—	—	—	—	—	—	—	—	—	—	—

	.167	.168	.169	.170	.171		.221	.222	.224	.225	.16
480											
81											
81½	—	—	—	—	—	—	—	—	—	—	—

	.277	.278	.279	.280	.281						
480											
81											
81½	—	—	—	—	—	—	—	—	—	—	—

480 — This is measurement of mix 3534 356 — put together — to be cut up of 353 00 Hot hardness
Stk weighting grinding —
9000 Ca 4500 grams
Cobalt plated tube - ring measurement before
after —
Rings pure Nickel C

Wt 6.003

Cal 273

T 51

481 Dup of 480
Wf 51818
Cal 272
T 50

481½Cup 450-
Wt
Cn C
T

482	5.460	272	48
483	5.571	272	48
484	5.443	271	49

	1	2	3	4	5	6
482	699	824	808	845	852	845
483	590	797	787	825	841	825
484	635	788	785	812	820	812

Hot Endurance

		57	58	59	60	61	112	113	114	115	116
482	After	845	845	847	847	843					
83	50	847	822	845	846	842					
84	Hot	843	820	840	847	837					

	162	163	164	165	166	277	278	279	280	281
482										
83										
84										

	277	278	279	280	281
482					
83					
84					

482 These are remnants of 111x 368 & 371 — Used to Duplicate 356 — which had iron bands on before pkg — Nickel plated tube bands on before pkg. Rings pure ni. cathal

CU f 5.46

Cal 272 (supplied) 272 (pressing) 272

T 52 48

483 Dup of 482

CWt 5.5.21

CaC 2/3

T 4d

484 Cup 482
Lot 5443
Cal 271
7-49

484½	5.956	272	48
485	5.687	271	49
486	5.690	271	49

	1	2	3	4	5	6
484½	675	820	845	842	840	862
485	740	867	878	831	847	872
486	675	805	817	797	800	832

Hot Endurance

		57	58	59	60	61	112	113	114	115	116
484½	After	927	922	910	910	900					
85	50	917	906	902	900	896					
86	Hot	880	872	856	852	851					

	162	163	164	176	177	225	223	226	227	228
484½										
85										
86										

	277	278	279	280	281
484½					
85					
86					

484½ Remainder of 374-374 mix - to
Duplicate 368 (which had iron rings on
log mandrels -
Nickel plated tubes, rings on fibre
pkg -
These are to be run with
Ralphs new Copper Mercury trans
Rings pure nickel
Wt 5.956
Cal 272
T 48

485 Dup 484½

Wt 5687
Ca.C 271
T 49

486 Sup 484
Vol 5.690
Cal 271
T 49

487	5.1610	271	48
488	5.1648	270	49
489	—	—	—

	1	2	3	4	5	6
487	750	862	870	827	822	872
488	700	816	830	805	813	858
489	—	—	—	—	—	—

Hot Endurance

		57	58	59	60	61	112	113	114	115	116
487	After	915	898	890	888	893					
88	50	908	896	875	878	860					
89	Hot	—	—	—	—	—					

	167	168	169	170	171	222	223	224	225	226
487										
88										
89										

	277	278	279	280	281
487					
88					
89					

487 Remnants left from 401 — Not Duplicate with 1 or 2 tubes if there is enough 401 — as old 401 had now things put on by mistake,

Wt 5.1610

C & C 271

T 44

488 Dup 487.
Wt 5.695.
Cal 270
J49

489 – Dup 487

Wt

Cal

T

490 | 5.710 | 272 | 48

	1	2	3	4	5	6
490	720	892	897	942	943	948

Hot Endurance

	1	50	57	58	59	60	61	100	112	113	114	115	116
490		Hot	957	962	937	931	921	Hot					

	167	168	169	170	171	222	223	224	225	226
490										

490 Rings [illegible] on 404 -
in Cobalt plated tube [illegible]
pure nickel rings worn out
on 404 by mistake
Only through mix for 1 tube.

Wt 5.710

Cal 2.[illegible]

T 4[illegible]

491 | 5.430 | 272 | 48 |

491 | 750 | 858 | 870 | 911 | 906 | 935 |

Hot Endurance

491 | 50 Hot | 927 | 907 | 900 | 900 | 900 | 100 Hot |

491

491

491

491 — Remaining 410 —
Makes 1 Cylinder only
pour necked rings and grooved wear rings

Wt 5,430

Cal 272

T 48 —

492 | 5.685 | 272 | 48

	1	2	3	4	5	6
492	792	913	924	1003	1007	1025

Hot Endurance

		57	58	59	60	61					
492	50 Hot	950	975	975	972	936					

	167	168	169	170	171						
492											

492 – Remnants 413 –

(prime mutel [illegible] old group [illegible])

[illegible]

(Remnants [illegible] enough to make 1 hatchery)

Wt ~~540~~ 5.685

Cal ~~270~~ 272

T ~~48~~ 48

493 | 5.446 | 272 | 48

493 | 557 | 722 | 753 | 727 | 732 | 768 |

Hot Endurance

493 | 50 Hot | 816 | 817 | 800 | 800 | 800 |

493

493 — Remnants of 350-calcined (?) iron rings on big mandrels - Encouraging for 1 turbo only

Wt 5446

Cal 272

T 48

494	5.714	272	50
495	5.669	271	48

	1	2	3	4	5	6
494	725	850	846	825	840	865
95	710	821	840	800	808	843

Hot Endurance

		57	58	59	60	61	112	113	114	115
494	50	920	907	900	900	885				
95	Hot	897	877	710	800	785				

	167	168	169	170	171	232	233	234	235
494									
95									

494 Remanufactured 383 to Exp 383 no
from rings since piston only needed
chrom nickel rings —

Weight 5714

CaC 272

T 50

495 Dup of 494

LOT 5669
Cal 271
T 48

496	5.922	272	48
497	5.690	271	48

	1	2	3	4	5	6
496	775	910	947	930	932	950
497	772	897	917	908	905	922

Hot Endurance

		57	58	59	60	61	112	113	114	115
496	50	921	952	950	932	936				
97	Hot	925	906	890	875	891				

	167	168	169	170	171	222	223	224	225	226
496										
97										

496 = Remnants of 345-Colmonoy and iron rings on slow incoloy rings
Cobalt plated Inconel rings on 50 from pkg —

Wt 5922
Col 272
T 48

497.Dup 790
Ug.T5690
Cal C 271
T48

498 | 6,007 | 271 | 49 |

	1	2	3	4	5	6
498	662	848	882	857	894	897

Hot Endurance

	50 Hot	60	61	62	63	64	115	116	117	118
498		912	912	893	900	592				

	170	171	172	173	174	175	176	177	178
498									

498 21000 combined to 21705
9000 Co flake
4500 glucose
Range on before grinding
Cobalt filled tubes
tube overcharged with Rich Co
New Copper Mercury trans —

Wt 6007

Cal 271

T 49

499	51443	272	49
500	51430	271	49

	1	2	3	4	5	6
499	747	841	842	800	817	847
500	762	850	850	791	797	847

Hot Endurance

		57	58	59	60	61	112	113	114	115	116
499	50	855	875	853	838	850					
500	Hot	870	860	848	835	847					

	167	168	169	170	171	222	223	224	225	226
499										
500										

499 = Remnants of 428 –
To duplicate 428 but with
Molded rings on bottom plug instead
of wrap as in 1st lot,

Lot 51443

Cal 272

T. 49

500 Eup 499

Lot 51430
Cal 271
T-49

501 | 6.711 | 271 | 49 |

1 2 3 4 5 6

501 | 750 | 910 | 930 | 902 | 905 | 933 |

Hot Endurance

57 58 59 60 61

501 | 50 Hot | 945 | 938 | 930 | 917 | 917 |

107 108 109 110 111 222 223 224 225 226

501

501 = Remnants of 357 —
Non-equip
Thus cold drawn and 1/2 hr
Nickel rings — on before pkg
Nickel plated tubes —

Lot 6.711

Cat 271

T 49

Endurance
Hot
357 Not Hot

502	5.827	272	48
503	5.684	272	49
504	5.713	273	48

Said not numbered as could not include in group.

	1	2	3	4	5	6
502	667	840	875	862	867	892
503	645	812	842	832	830	850

Hot Endurance

		57	58	59	60	61	112	113	114	115	116
502	50	920	917	917	900	892					
03	Hot	893	892	875	877	872					

	167	168	169	170	171	222	223	224	225	226
502										
03										

502 = 21000 absorbed to 21710 —
thro 20
9000 Cobalt flake. NOT run
through Hydrogen
4000 glucose
Cobalt flake thro 20 mesh —
Cobalt plated tube rings mbefore filled
Wt 5.828
Col 272
T 48

Mix with flake more bulky
then flake thro H,

3.52 grain —

503 Dup 502

Wt 5.684

Cal 272

T 49

504 Dup 502:
Wt 51713
Cal 273
T48

505	5.774	273	49	Could not remember or could
506	5.709	273	50	find mistake in group.
507	5.587	273	50	

	1	2	3	4	5	6
505	642	812	843	837	850	877
506	—	—	—	—	—	—
507	717	847	855	872	835	850

Hot Endurance

		57	58	59	60	61	112	113	114	115
505	After	917	905	900	897	892				
06	50	—	—	—	—	—				
07	Hot	895	880	870	875	867				

	167	168	169	170	171	222	223	224	225	226
505										
06										
07										

505 Duplicate of 502

Except Mach plated

tubes

21000 absorbed to 21732

Wt 5.774

Cal 273

T 49

Mix very sticky —

furnished with sample of mix

Bulkey [illegible]

506 Dup 505

Wt 5,709
Cal 273
T 50

507 Dup 505

Wt 5.587

Cal 273

T 50

508	5,216	271	47
509	5,138	272	51
510	5,236	272	48

		2	3	4	5	6
508	760	780	770	737	727	772
509	696	747	737	705	710	750
510	682	739	740	708	717	762

Hot Endurance

		57	58	59	60	61	112	113	114	115
508	After	820	800	780	778	765				
09	50	790	782	767	770	767				
10	Hot	792	792	787	787	765				

		167	168	169	170	171	222	223	224	225
508										
09										
10										

508 = 21000, abrasion to 21600 (Hum 20)
9000 Cobact flake Hum 20
4500 glucose
Cobact plated tube, rings on before packing.
Packed 50 Single Trump

Wt 5,216
Col 271
T 47

3.15 grain

509-Dup 508

Wt 5.138

Cal 272

T 51

510 Dup 508

Cof 5.236
Col 272
T 48

511	6.239	271	50	
512	6.131	272	48	Bird not ringed so could not include in group.
513	5.889	271	49	

	1	2	3	4	5	6
511	608	835	882	890	897	920
512	611	850	905	910	917	938
513	—	—	—	—	—	—

Hot Endurance

		57	58	59	60	61	112	113	114	115	116
511	After	963	957	950	952	920					
12	50	967	975	970	962	950					
13	Hot	—	—	—	—	—					

	167	168	169	170	171	222	223	224	225	226
511										
12										
13										

511 Duplicate of 508

Except weight, Col. Tarsus rings changed by 50 single Temp. Dim.

21000 g. number to 21688

Wt 6.239

Col 271

T 50

512 Dup 511
Wt 6,131
Cal 272
T 48

513 Dup 511

Wt 5,889
Col 271
T 49

I notice that these mixes the bottom of the tubes sent above up like zero graphite mix – they seem to be open as they are in the original strip – filled with opaque pink. There is a single flake on the surface of the cylinder ~~[illegible]~~ mix after the tube is opened & stripped from it.

514	5.637	272	48
515	5.588	272	48
516	5.276	272	48

	1	2	3	4	5	6						
514	597	802	850	880	816	745						
515	656	808	826	846	790	817						
516	667	777	785	802	755	780						

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
514	After	777	882	881	865	866						
15	50	862	857	840	837	838						
16	Hot	858	810	800	800	800						

	167	168	169	170	171		222	223	224	225	226
514											
15											
16											

514 21000 grams abs. bed to 21.720
9000 Cobalt of flake thro 20 -
4000 glucose -
Cobalt tube plated, rings on both ends packing -

In each cell put 21% KOH, containing 250 milligrams of silicate of Potash in each cell

Wt 5.637

Cal 272

T 48

Cracked one end

515 Dup 514

Wt 5.588
Cal 272
T 48

516 Dupof 514 –

Wt ~~[illegible]~~ 5.27 L.

Col 27 ✓

T 48

cracked one end

517	5.491	272	48
518	5.355	272	49
519	5.504	272	48

	1	2	3	4	5	6						
517	640	791	811	835	795	821						
18	641	778	786	808	762	792						
19	683	840	850	888	810	847						

HOT ENDURANCE

		57	58	59	60	61	112	113	114	115	116
517	After	881	866	847	846	847					
18	50	830	830	802	805	800					
19	Hot	887	875	881	88.	847					

	167	168	169	170	171	222	223	224	225	226
517										
18										
19										

517 - Duplicate of 514
2000 grain abrasive grit to 24/30
Except Make flat blade tube
250 milligram Silicate Pellets
Each cell -

Wt 5.491
Cal 272
T 48

518 Dup of 517 cracked one end.
Wt 5.355
Cal 272
T 49

519 Dup of 517
Wt 5.504
Cal 272
T 48

520	5.604	272	48	
21	5.214	272	47	
22	5.279	272	48	

	1	2	3	4	5	6						
520	592	745	773	805	738	742						
21	601	692	685	693	637	655						
22	600	724	720	740	664	682						

Hot Endurance

		51	55	59	60	61	112	113	114	115	116
520	After	600	725	700	700	697					
21	50	527	550	522	507	512					
22	Hot	565	575	537	537	532					

	167	168	169	170	171	222	223	224	225	226
520										
21										
22										

520 Duplicate of 514
Except put in each cell -
250 Milligrammes Metallic
Aluminum — in each cell
Cobalt plated powder range
Inforeplex 21000 grm abrasive to 21.600

Wt 5.604
Cal 272
T 48

521 Dup 520

Wt 5.214
Cal 272
T 47

522 Dup 520

Wt 5.279
Cal 272
T 48

523	5.795	272	50									
24	5.620	272	50									
24½	5.450	272	50									

		1	2	3	4	5	6					
523	503	693	725	600	705	725						
24	500	676	700	722	692	692						
24½	530	670	687	692	640	665						

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
523	After	595	620	555	578	550						
24	50	610	621	577	595	592						
24½	Hot	487	595	447	570	562						

		167	168	169	170	171		222	223	224	225	226
523												
24												
24½												

523 Duplicate of 514 —
Except Nickel plated
tubes Temp as before firing
.250 McGraw mines McCallie Calibrium
in each cack 21000 grain abrasivity 21.730

Wt 5.795
Cal 272
T 50

524 Dup 523

Wt 5.620 Cracked in end
Cal 272
T 50

524½ Dup 523

Wt 5.450
Cal 272
T 50

This balled terribly owing to its being very cold the glycose was very dense.
Was got very dry before I broke up the ball.

525	5.554	272	49	
26	5.527	272	48	
27	5.515	272	48	

	1	2	3	4	5	6						
525	615	775	795	822	780	795						
26	616	793	812	836	792	802						
27	700	820	843	843	795	815						
				Hot Endurance								
		52	58	59	60	61	112	113	114	115		
525	After	855	880	827	827	820						
26	50	865	862	848	841	844						
27	Hot	870	855	845	840	845						
		167	168	169	170	171	222	223	224	225	226	
525												
26												
27												

525 Duplicate 514
except each cell put in
250 milligrammes Sulphate Copper
Cobalt plated tubes rings on
before pkg 21000 inserted Cell 21700

Wt 5.554
Cal 272
T 49

526 Dup 525

Wt 5.537
Cal 272
T 48

527 Dup 525

Wt 5.515
Cal 272
T 48

528	5.547	272	48
29	5.382	272	48
30	5.276	272	48

	1	2	3	4	5	6						
528	575	715	737	761	720	750						
29	600	700	722	746	707	737						
30	605	748	770	792	750	781						

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
528	After	796	790	775	772	775						
29	50	777	770	750	747	745						
30	Hot	837	827	812	805	806						

		167	168	169	170	171		222	223	224	225	226
528												
29												
30												

528 - Dup of 514
21000 grams ab 600 to 21,600
Except Nickel plated
tubes rings & 6 2 Kraft packing
& 250 milligrams Sulphate Copper
in each cell —

Wt 5.547
Cal 272
T 48

529 Dup 528

Wt 5.382
Cal 272
T 48

530 Dup 528

Wt 5.276
Cal 272
T 48

531	5.443	272	48	
32	5.440	271	48	
33	5.484	272	48	

	1	2	3	4	5	6						
531	685	795	826	844	830	822						
32	697	788	817	837	820	815						
33	664	775	815	831	815	813						

Not Endurance

		57	58	59	60	61	112	113	114	115	116
531	After										
32	50										
33	Hot										

	167	168	169	170	171	222	223	224	225	226
531										
32										
33										

531 Duplicate 514

21000 grams (dumbing) to 21.688

Except in Each cell

250 milligrams Metallic Bismuth, Each cell

Cabot Blitzed tubes, rings in

before pkg

Wt 5.443

Cal 272

T 48

532 Dup 531

Wt 5.440

Cal 271

T 48

533 Dup 531

Wt 5.484

Cal 272

T 48

534	5.633	272	49
35	5.611	272	50
36	5.583	272	48

	1	2	3	4	5	6						
534	630	763	831	847	837	825						
35	582	733	792	812	807	792						
36	640	790	835	850	837	828						

Volt Endurance

	57	58	59	60	61		112	113	114	115		
534	After											
35	50											
36	Hot											

	167	168	169	170	171		222	223	224	225		
534												
35												
36												

534 Duplicate 514

2 [illegible] to 21.673

Except Method plated

Lutes rinsed before pH 7

.250 Mil [illegible] Nitrate 13 [illegible] month

in each cell

Wt 5.633

Cal 272

T 49

535 Dup 534

Wt 5.611

Cal 273

T 50

536 Dup 534

Wt 5.583

Cal 272

T 48

537	5.682	272	48	
38	5.674	272	48	
39	5.336	272	49	

	1	2	3	4	5	6						
537	680	777	832	838	835	816						
38	711	767	835	853	840	836						
39	666	735	780	788	795	775						

Hot Endurance

	57	58	59	60	61		112	113	114	115	
537	After										
38	50										
39	Hot										

	167	168	169	170	171		222	223	224	225	226
537											
38											
39											

537 Duplicate of 514
21000 grams absorbed to 7.165
Except 250 Mc Grams Manganate
of Potash in Sulphuric acid
Co Coff plated tubes rings on
before ply

Wt 5.682
Col 272
T 48

538 Dup. 537

Wt 5.674
Col 272
T 48

539 Dup 537

Wt 5.336
Col 272
T 49

540	5.694	.272	50
41	5.714	.272	50
42	5.780	.272	50

	1	2	3	4	5	6					
540	645	817	863	895	877	875					
41	657	832	881	906	892	888					
42	661	845	880	910	892	900					

Inductance

	57	58	59	60	61						
540	After										
41	50										
42	Hot										

	167	168	169	170	171						
540											
41											
42											

540 Duplicate of 514
21000 grams added to 21788
Except Nickel plated tubes
rings on before grinding
250 milligrams Manganate of Potash
in each cell

Wt 5.694
Cal .272
T 50

541 Dup. 540

Wt 5.714
Cal .272
T 50

542 Dup 540

Wt 5.780
Cal .272
T 50

543	5.524	272	49	
44	5.305	271	49	
45	5.470	271	48	

	1	2	3	4	5	6						
543	512	692	757	772	747	750						
544	575	700	737	750	710	745						
45	622	762	787	803	812	921						

Hot Endurance

		57	58	59	60	61	112	113	114	115		
543	After	827	830	805	797	800						
44	50	784	790	770	773	767						
45	Hot	831	828	812	815	813						

		167	168	169	170	171	222	223	224	225		
543												
44												
45												

543 Duplicate of 514
21000 grams ball milled to 21655
Except 250 milligrammes of
Lead Oxide dissolved in the 21%
KOH — in each cell
Cobalt plated tubes run grow
before plug

Lot 5.524
Cal 272
T 49

544 Dup 543

Lot 5.305
Cal 271
T 49

545 Dup 543

Lot 5.470
Cal 270 Cracked one end
T 48

546	5.649	271	50
47	5.538	272	50
48	5.527	271	48

	1	2	3	4	5	6						
546	577	795	850	877	835	855						
47	582	796	842	866	825	850						
48	95	65	787	810	794	812						

Not Endurance

	57	58	59	60	61		112	113	114	115	
546	After	918	900	900	893	898					
47	50	900	895	887	880	886					
48	Hot	908	895	890	880	886					

	167	168	169	170	171		222	223	224	225	226
546											
47											
48											

546 Duplicate of 514
21000 grams absorbed to 21,708
Except Nickel plated tubes
with rings on before pkg
250 milligrams Lead oxide also used in the
21% KOH in each cell

Wt 5.649
Cal 271
T 50

547 Dup of 546

Wt 5.538
Cal 272
T 50

548 Dup of 546

Wt 5.527
Cal 271
T 48

549	5.530	272	48	
50	5.454	271	49	
51	5.582	272	48	

	1	2	3	4	5	6						
549	555	803	867	850	817	227						
50	633	800	842	855	792	212						
51	622	815	866	885	854	227						

Hot Endurance

		57	58	59	60	61		112	113	114	115	116
549	After											
50	50											
51	Hot											

		167	168	169	170	171		222	223	224	225	226
549												
50												
51												

549 Duplicate of 514
2100 grams abs. EtOH to 21.68 %
Except 100 milligrams of Barium hydroxide for 100 milligrams of Calcium hydroxide in Batch ccc — the 2 mixed together with 21% Cobalt plated tubes, single on before plating —

Wt 5.530
Cal 272
T 48

550 Dup of 549
Wt 5.454
Cal 271
T 49

551 Dup of 549
Wt 5.582
Cal 272
T 48

552	5.614	272	48			
53	5.530	271	49			
54	5.493	272	47			

	1	2	3	4	5	6						
552	717	690	917	930	887	882						
53	730	865	882	892	822	862						
54	690	837	860	875	830	846						

Hot Endurance

	51	55	57	60	61	112	113	114	115	116
552 After										
53 50										
54 Hot										

	117	118	119	120	121	122	123	124	125	126
552										
53										
54										

552 Duplicate of 514
2,000 grams of burning tub 21,600
Except Nickel plated Tubes
rings on before plug
100 mlg Barium Hydroxide
100 " Calcium "
mixed together in each case —

Wt 5.614
Cal 272
T 48

553 Dup of 552

Wt 5.530
Cal 271
T 48

554 Dup of 552

Wt 5.493
Cal 272
T 47

555	5.537	271	49	
56	5.669	271	50	
57	5.375	271	49	

	1	2	3	4	5	6						
555	688	835	840	858	797	801						
56	676	826	845	867	877	825						
57	713	818	840	837	790	796						

Not Indicance

		57	58	59	60	61	112	113	114	115	116
555	After	877	857	845	847	840					
56	50	887	871	867	850	845					
57	Hot	847	830	805	800	800					

	166	167	168	169	170	171	222	223	224	225	226
555											
56											
57											

555 Duplicate of 514
2 1000 grm abrasion 2/7/20
Except 250 milligrms of Dicalcium
precipitated containing hydroxide
in each cell —
Cabaf filled tubes rings on
before pkg —

Wt 5.53
Cal 271
T 49

556 Dup of 555
Wt 5.669
Cal 271
T 50

557 Dup of 555
Wt 5.375
Cal 271
T 49

558	5.743	272	49	
59	5.750	271	48	
60	5.753	270	48	

	1	2	3	4	5	6						
558	623	831	865	886	850	868						
59	666	857	882	900	838	870						
60	666	837	873	892	850	862						
					Hot Endurance							

		57	58	59	60	61	112	113	114	115	116
558	After	902	880	890	881	877					
59	50	877	877	882	872	877					
60	Hot	932	921	907	900	896					

	167	168	169	170	171	172	173	174	175	176
558										
59										
60										

558 Duplicate of 514
21000 grain absorbed 21.630
Except Nickel plated tubes
range on before pkg
240 milg incently propp(d) containing hydrox.

Lot 5.743
Col 272
T 49

559 Dup of 558

Lot 5.750
Col 271 Ring tubes
T 48

560 Dup of 558

Lot 5.753
Col 270
T 48

561	5.584	272	50
62	5.627	271	48
63	5.729	273	48

	1	2	3	4	5	6						
561	622	821	857	890	826	837						
62	650	830	867	890	837	855						
63	718	885	905	930	866	882						

Not Endurance

	57	58	59	60	61		162	163	164	165	
561	After	905	895	888	877	885					
62	50	913	905	896	885	891					
63	Hot	920	920	917	912	912					

	167	168	169	170	171		222	223	224	225	226
561											
62											
63											

561 Duplicate of 514
2100 grams ribbon No. 21675
250 Milligrams
Except, ~~[illegible]~~
Chloride of Potassium in each cell,
Cobalt plated Tubes rings on before pkg

Wt 5.584
Cal 272
T 50

562 Dup of 561

Wt 5.627
Cal 271
T 48

563 Dup of 561

Wt 5.729
Cal 273
T 48

564	5.1664	272	48
65	5.732	272	49
66	5.732	271	48

	1	2	3	4	5	6
564	707	846	855	870	872	880
65	667	855	868	891	848	867
66	701	870	881	898	860	882

Hot Endurance

		57	58	59	60	61	112	113	114	115
564	After	885	885	885	875	878				
65	50	722	913	908	902	900				
66	Hot	935	917	917	902	900				

	167	168	169	170	171	222	223	224	225
564									
65									
66									

564 Duplicate 514
2000 grams above to 21.650
Except Nickel plated Cylinder
range on before plate
1250 milligrams Chloride of Potassium

Wt 5.664
Col 272
T 48

565 Dup of 564

Wt 5.732
Col 272
T 49

566 Dup of 564

Wt 5.732
Col 271
T 48

5.732
4.58.50

567	5.450	272	47
568	5.385	272	47
569	5.432	272	47

		1	2	3	4	5	6						
567													
68													
69													

Hot Endurance

		57	58	59	60	61		112	113	114	115	
567	After											
68	50											
69	Hot											

		167	168	169	170	171		272	273	274	275	276
567												
68												
69												

567 Duplicate of 514
21000 grams absorbed to 16000
Except 250 milligrams Titanate of Potash
Cobalt plated tubes rings on Geform
pkg —

Wt 5.450
Cal 272
T 47

568 Dup of 567
Wt 5.385
Cal 272
T 47

569 Dup of 567
Wt 5.432
Cal 272
T 47

Marks 369 group
~~[illegible]~~

Hot [illegible]
[illegible]

~~Silver Nitrate 250~~ Milligrammes [illegible]

~~Aluminum 100~~

~~Copper Sulphate 250~~

~~Bismuth Nitrate 250~~

Hg. mercic Sol in KOH,

~~Manganese Protoxide~~

~~Lead oxide (litharge) in KOH 250~~

~~Iron Chloride~~

~~Bismuth hydroxide 250~~

~~Lime~~

~~Sulphate Lime 250~~

Carbonate Lime 250

~~Chlorine gas~~

~~Chlorine solution Chl'ric [illegible] 250~~

Tetranitr Potash 250

~~Chromate~~ Potash 100

Cobalt 250

Stearic acid 250

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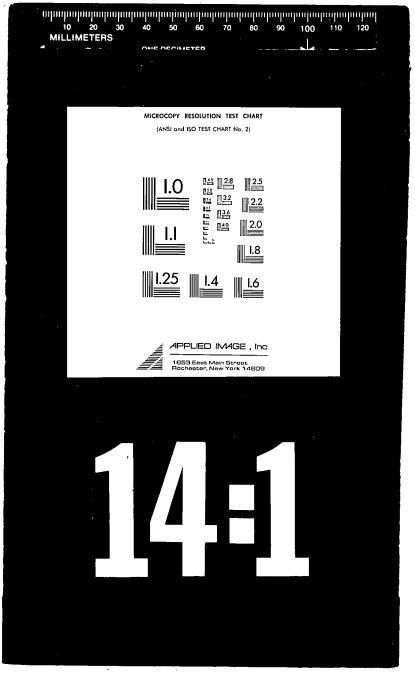
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